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ILLUSTRATED
CATALOGUE AND PRICE LIST

— OF —

VETERINARY INSTRUMENTS.
JOHN REYNOLDERS & CO.

303 FOURTH AVENUE, NEW YORK.

FOURTH EDITION.



ILLUSTRATED CATALOGUE

OF

VETERINARY INSTRUMENTS,

ANATOMICAL MODELS, BOOKS, ETC.

FOURTH EDITION.

REVISED AND ENLARGED.



MANUFACTURED, IMPORTED AND FOR SALE BY

JOHN REYNDERS & CO.,

No. 303 Fourth Avenue, New York.



COMPILED AND PUBLISHED BY
CHARLES REYNDERS,

1889.



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Press of H. CHEROUNY,
17-27 Vandewater St.,
New York.

INTRODUCTION.

In presenting to the American Veterinary Profession, Stock Farmers and others the fourth edition of our Illustrated Alphabetical Register of Veterinary Instruments, Anatomical Models, Books, etc., we intend to furnish the means of becoming acquainted with the various forms of these goods as manufactured and imported by us. This Register will be found a valuable guide of reference for the selection of articles of above description. In compiling, neither labor, time nor expense have been spared to make it the completest work of its kind published on this continent.

Our stock is larger, more varied and completer than heretofore. It is our determination to have on hand a full supply of all goods mentioned in the following pages; all new and useful improvements will be added thereto, thus enabling the profession to find at our establishment everything requisite for each department of their art. We shall be pleased to have our attention called to new inventions and improvements in Instruments and Apparatus; our personal superintendence will be given to the execution of orders for such as also to all orders large or small for goods as enumerated in the following pages and that we may be favored with. Our prices are as moderate as consistent with the irreproachable quality of the goods (the only quality manufactured by us); and taking this into consideration, will compare favorably with any first class manufacturers in this country.

All of the following articles are of strictly the best quality, made by experienced artisans at our factory and are warranted to give satisfaction.

By constant and careful attention to the production of Instruments of the very best quality and workmanship, we hope to merit a continuance of the liberal patronage and support hitherto accorded us.

Most Respectfully,

No. 303 FOURTH AVE., N. Y.,
JANUARY, 1890.

John Reynders & Co.,
*Instrument Makers to the Hospital Department of the
American Veterinary College.*

Every Publication of this kind by us is superseded by this, the Fourth Edition.

SUGGESTIONS TO ACTUAL AND INTENDING PURCHASERS;

Observance of which will insure the smooth and expeditious transaction of Business.

1. *Never forget to sign your name in correspondence ; write the name of your P. O., County and State, and your own name distinctly.*

2. Please do not mutilate this book, consider it too valuable for such treatment. There is no necessity for purposes of elucidation to make clippings and send them to us. Mention number of page and article and you'll always be understood.

3. When ordering an article of which different sizes are made state which size is desired, or give measurements.

4. **Orders may be sent from any other reputable U. S. list and will be filled at the advertised rates. This Catalogue is only our contribution to the Veterinary Profession towards a Guide for Selection of Instruments and Appliances.**

5. State how goods are to be forwarded—by mail, express or otherwise.

6. We are not responsible for goods lost or broken in transit when sent by mail.

7. The Home Insurance Co. (capital, \$3,000,000), at a cost of five to ten cents in each case, insures packages against loss while in the care of the U. S. Mail. We are prepared to effect this insurance, which can be done without any trouble or delay whatsoever, at the cost of the purchaser and heartily recommend it.

8. Remittances can be made with the lowest minimum of risk by P. O. Orders or Drafts to our order. Other ways of sending money should be avoided as much as possible, as we become liable only with actual receipt of money in our hands.

9. Parties unknown to us should not expect us to fill their orders without cash accompanying the same, or without giving references satisfactory to us as to their reliability. Let them consider how ready they would be to trust strangers with from One to Five Hundred Dollars, or to what extent they would like to exhaust their profit in sending statements or enforcing collections by law. The cases in our experience where trust upon the honor of man in general has had consequences contrary to our purpose of business (which is to sell and not to give away goods) have been too numerous to be ventured upon any further.

10. No goods sent C. O. D. unless satisfactory references are given, or \$2 to \$5, according to amount of the order accompanying the same. Such remittances to cover any risk of the goods not being claimed on arrival, and which may have to be returned at the expense of the shipper. We are always ready to allow examination of goods before payment, if purchaser can secure that privilege from the local express agent.

11. All packing boxes will be charged for at cost prices, and all goods packed with the utmost care by competent hands. After having received a receipt from transportation companies for the box or package in good order, our responsibility ceases, and they are legally liable for any damage or delay in forwarding goods.

12. Should there be any misapprehension or error on our part in putting up an order, it will afford us pleasure to correct the same ; as it is our desire to give entire satisfaction in every transaction.

13. Every article sent by us not answering our description or not according to order, will be taken back without loss to the purchaser.

14. We reserve the privilege of changing the prices in this Catalogue as the fluctuations in the cost of materials and wages may require.

15. Please do not seal, paste or sew up any package sent to us by mail.

16. Do not inclose writing in any mail package, but inform us by separate letter or postal card what you wish to be done about any articles mailed to us.

17. Articles having sharp edges or points (knives, needles, etc.), as also such composed wholly or in part of glass (Hypodermic Syringes, etc.), must be packed in light wooden or tin boxes with sound wrappers.

18. When about sending us something for repairs it is generally essential that all parts are sent along, so that anything new can be made to harmonize with the rest.

19. All packages or parcels sent to us by mail or express *should have the name and address of the sender plainly written on the outside thereof, with the word "From" above the same. This is essential towards enabling us to return the articles to the proper place and person.*

20. Insurance by the Home Insurance Co. (capital, \$3,000,000) of packages against loss by mail is effected by affixing their stamps to the package the same as is done with postage stamps. You can procure insurance stamps from us at cost price.

TERMS.

Our terms are on the basis of *Cash*. Everything mentioned individually or under a heading with an asterisk (*) is net. 10% go off from everything else except Medicine Chests and Saddle Bags, from which the discount is 15%.

We reserve, however, the privilege of sending out bills footed up without these discounts, and the net articles 10% higher than quoted in this catalogue. A statement will go with the bills setting forth at what amount settlement will be accepted if paid within a reasonable time from date, say ten to thirty days. This net amount will be 10% less than face of bill, and if not paid within the required time our claim will be for the full amount.

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I. DENTAL INSTRUMENTS.

HORSES' TEETH, by Wm. H. Clarke.....Price \$2.00
 CONTENTS: Introduction. Tooth Germs. Temporary Dentition. Permanent Dentition. Canine Teeth
 or Tusches. Remnant Teeth. Dental Cysts and Supernumerary Teeth. Horses' Teeth under the Microscope.
 Pathology of the Teeth. Dentistry of the Teeth. Fractured Jaws. Teeth as Indicators of Age. Trigemini
 or Fifth Pair of Nerves. Vocabulary. Appendix.



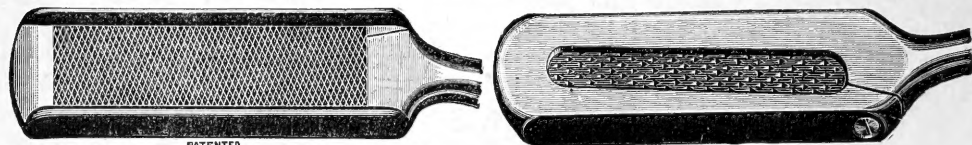
350.* File or Float, Adjustable; handle solid.....\$*2.00



351.* File or Float, Adjustable; handle to unscrew.....\$*2.75



352.* File or Float, Scheffer's Reversible.....\$*2.25
 353.* " " " " handle to unscrew.....\$*3.00



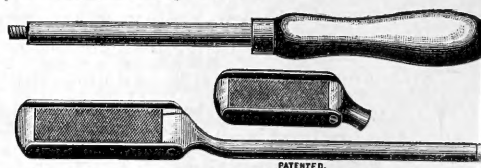
FRONT VIEW. 352 & 353

BACK VIEW. 352 & 353

352 and 353 have been devised with the object in view of supplying the profession with practical and humane instruments. There are no rough edges to lacerate the mouth. The blades are held in position in such a manner as to prevent slipping; they will not rust in the holder and can be easily reversed, and cannot be broken by the animal shutting down on them.



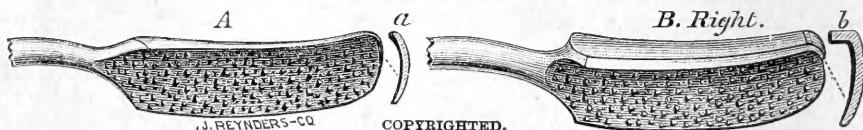
354.* File or Float, Angular, intended for floating the front, upper and lower molars, which cannot be accomplished satisfactorily with the ordinary straight file or long float. Veterinary Surgeons now using them consider them indispensable. \$*2.00



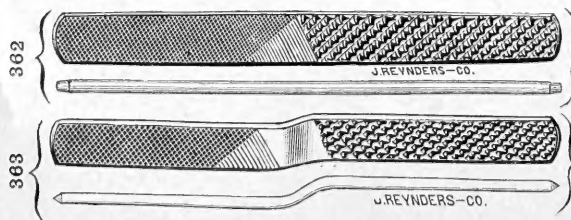
355.* Set of Combined Floats, 353 and 354 \$4.00



356.* Extra Blades for 350 or 351, both sides file.....\$*0.25
 357.* Same, one side file, the other rasp.....\$*0.25
 358.* " for 352 to 354.....\$*0.25



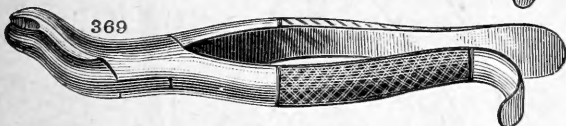
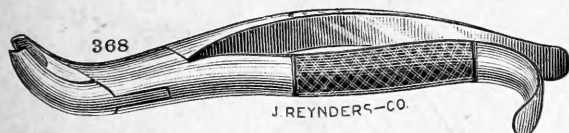
359.* Set of 3 Rasps, right and left, guarded, ridge $\frac{3}{8}$ in. high @ \$2.50; * and one narrow plain file @ \$1.50; * the set of three.....\$*6.00
 360. Ordinary Rasp, style of handle like 350, plain \$*1.50; guarded.....\$*2.25
 361. " " " 351, " \$*2.75; ".....\$*3.50



362.* File for Front Teeth, House's.....\$0.85
 363.* File for Front Teeth, Palmer's.....0.85
 364. File for Front Teeth, in handle, improved cut.....2.50
 365. File for Front Teeth, S form, for rounding off corners.....1.00

All Instruments Illustrated are designated by a *

I. DENTAL INSTRUMENTS.



366.	Extracting Forceps, length 7½ in	\$1.88
367.*	“ “ “ for Wolf Teeth, 9 in.	2.50
368.*	“ “ “ “ “ one handle curved.....	3.75
369.*	Extracting Forceps, for Wolf Teeth, “bayonet”.....	3.75
370.*	Extracting Forceps, for Molars, 15 in.	4.50
371.*	Molar Extractor, Goings's, 20 in., with closing screw crank handled.	19.00
372.	Molar Cutter, Liautard's, like 371, but jaws like 376.....	19.00

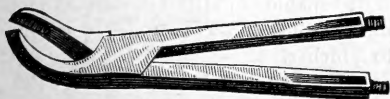
See also page 53.

HOUSE STYLE OF EXTRACTORS AND CUTTERS.

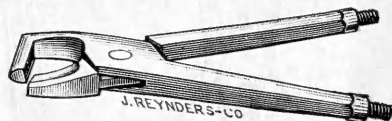
(Length, with handles, of each about 20 in.)



373.*	Molar Cutter, House's, with both 375 and 376, handles adjustable.....	\$33.33
374.*	Same with either 375 or 376.....	23.33



375.★ House's Molar Extractor.



376.★ **Liautard's Molar Cutter.**



377.* Molar Extractor	\$8.88
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378.★ Open Molar Cutter..... \$14.00



379.* Closed Molar Cutter..... \$14.00



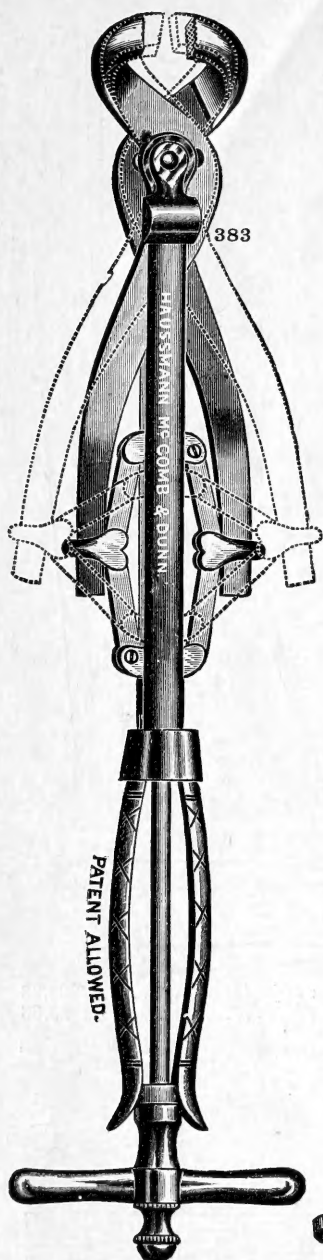
380.* Side View 378 and 379.



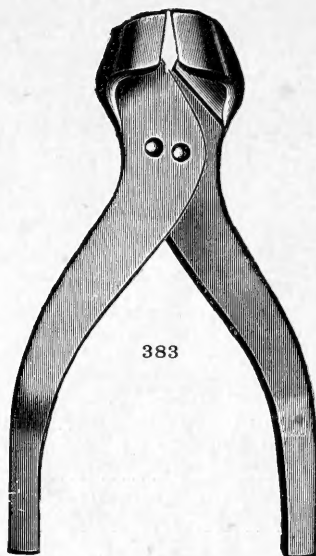
381.★ Handlesper pair \$5.55

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I. DENTAL INSTRUMENTS.

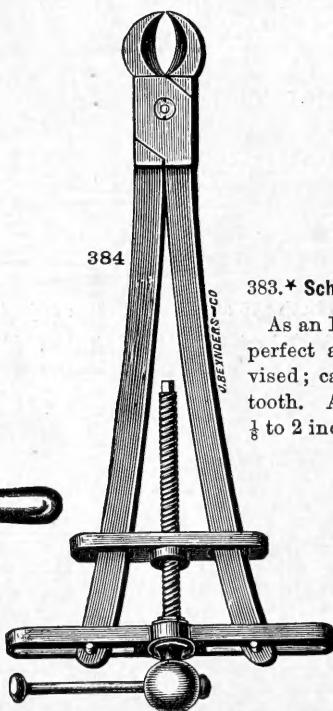


383



383

384



383.* Scheffer's Extractor and Cutter for Molars.

As an Extractor it is said to be the most perfect and powerful instrument yet devised; capable of pulling the largest molar tooth. Adjustable to any size tooth, from $\frac{1}{8}$ to 2 inches.

As a Molar Cutter for cutting molars square off and removing large projections, it is said to have no equal.

Price, net..... \$35.00

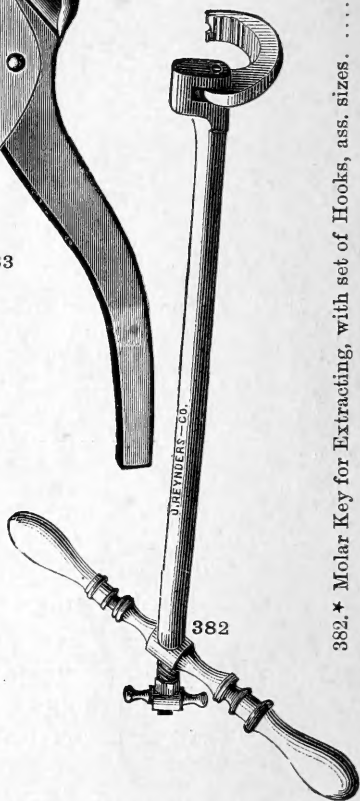
The above, with Molar Cutter 379 for trimming, makes a most recommendable set.

See also page 53.

384.* Molar Cutter, Moller's..... \$26.00

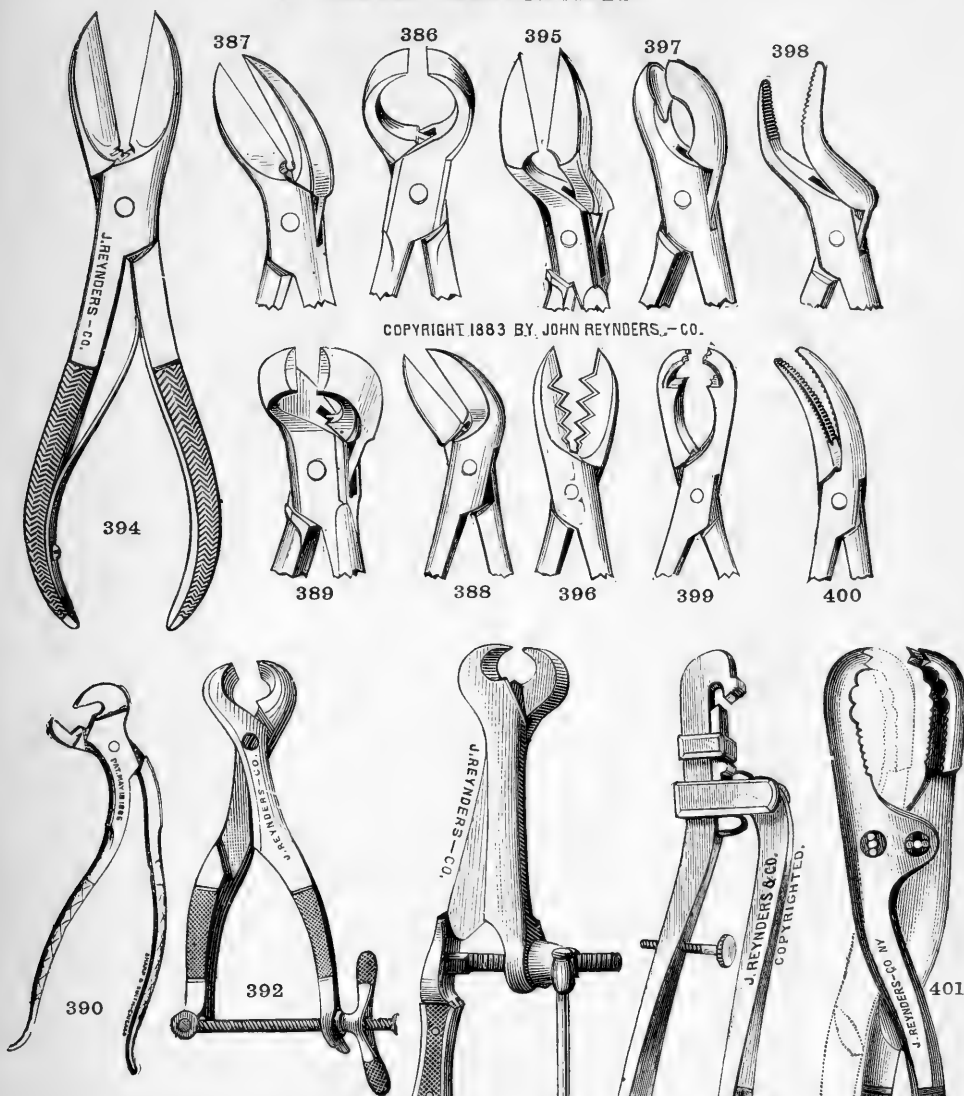
All Instruments Illustrated are designated by a *

382.* Molar Key for Extracting, with set of Hooks, ass. sizes. \$29.00



382

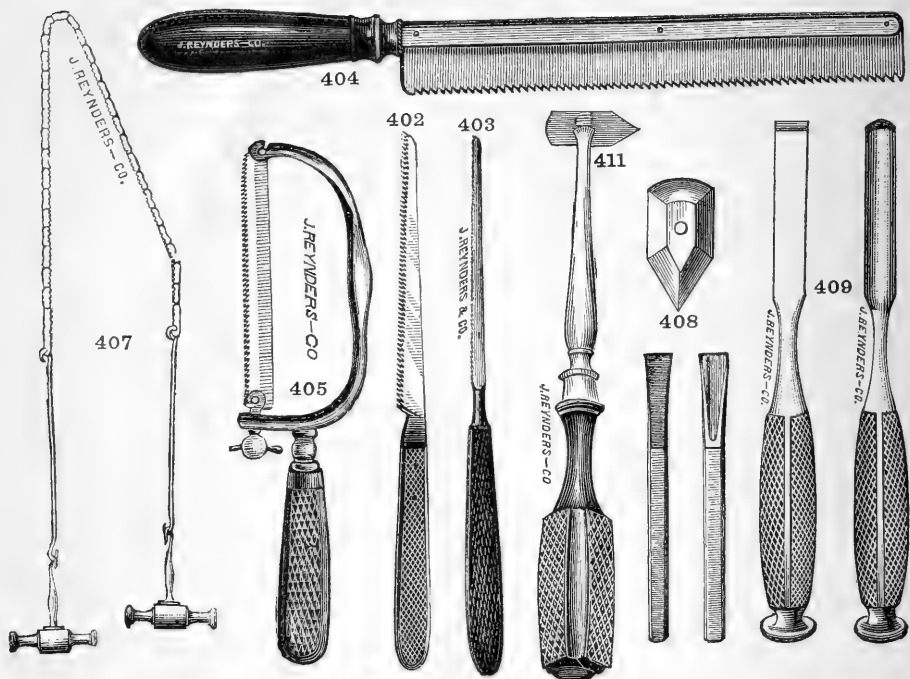
I. DENTAL INSTRUMENTS.



386.*	Front Tooth Cutter, House's,		
	Angular, 113.....	\$5.50	
387.*	Front Tooth Cutter, House's		
	14.....	5.50	
388.*	Front Tooth Cutter, House's	115.....	\$5.50
389.*	" " " "	" 116.....	5.50
390.*	" " " "	S. & D.....	16.66
391.*	" " " "	French 110.....	21.00
392.*	" " " "	" 112.....	16.50
393.*	" " " "	Adams'.....	16.50
394.*	Bone Cutting Forceps, Straight...	\$2.50, \$3.50, 7.00	
395.*	" " " "	Bayonet.....	\$6.00
396.*	" " " "	Zigzag.....	8.50
397.*	" " " "	Gnawing.....	3.00
398.*	" " Holding " "	Van Buren's.....	2.50
399.*	" " " "	Lion Jaw.....	3.00
400.*	" " " "	Markoe's.....	\$2.50
401.*	" " " "	Faraboeuf's.....	6.00
397 to 400 Extra Large.....			\$6.00 and 8.00

All Instruments Illustrated are designated by a *

I. DENTAL INSTRUMENTS.



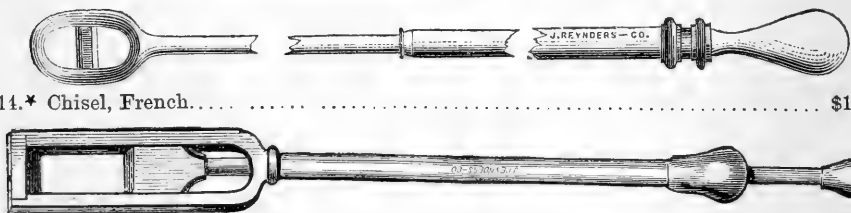
- 402.* Saw, plain..... \$1.25
 403.* " fine..... 1.50
 404.* " in handle..... 3.00
 405.* " Bow..... 5.00
 406.* " Hilton's, Dakota. 3.00
 407.* " Chain, with handles 10.00



- 408.* Chisel, plain and hollow....each \$1.11
 409.* " " " " " 2.50
 410.* " " " " " 10 in. \$1.66; 16 in. 2.50
 411.* Scraper..... 2.50
 412.* Mallet, lead filled. 2.25
 413.* " boxwood..... 0.50



- 414.* Chisel, French..... \$12.00



- 415.* Chisel, Going's..... \$13.33

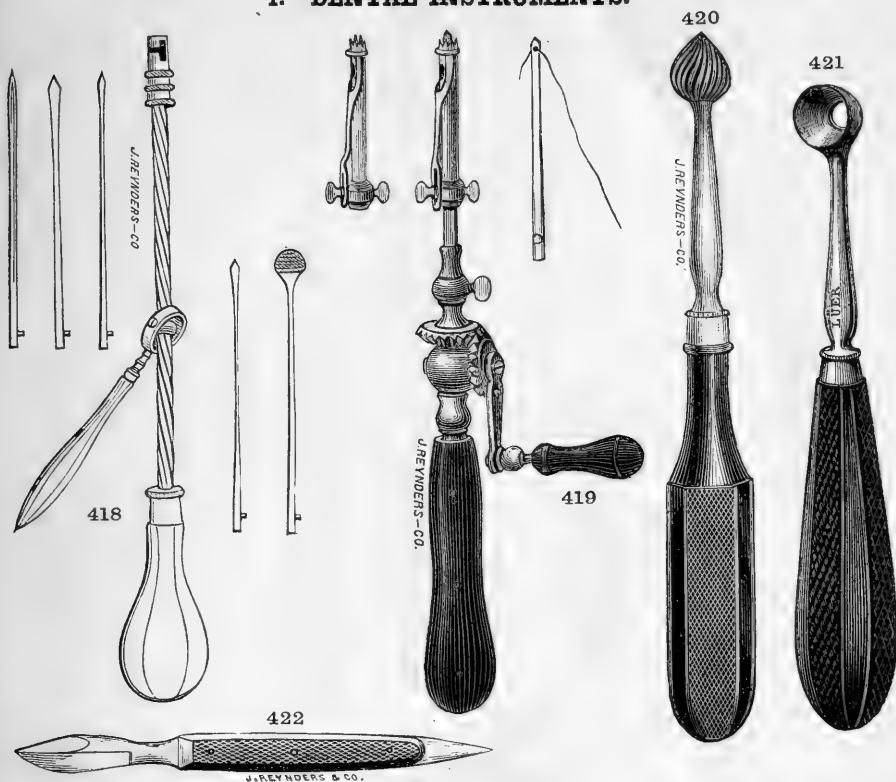


- 416.* Chisel, "Home Rule"..... \$7.00



- 417.* Chisel, Liantard's..... \$5.00

I. DENTAL INSTRUMENTS.



418.*	Drill for Teeth and Bone.....	\$6.00
419.*	" Bevel Gear with Trepine.....	\$7.50; without 4.50
420.*	Burr.....	2.50
421.*	Scoop.....	2.50
422.*	Knife and Pick, Hurlburt's.....	1.66
423.	Hook, House's.....	1.00
424.	Pick, right and left.....	each 1.50
425.	Gum Lancet.....	1.00

JOHN REYNDERS & CO.'S DENTAL OUTFIT.

The instruments composing the same are of the latest and most approved patterns, mostly our own designs, manufactured and sold exclusively by us. Each instrument is made of the finest steel, best finish and nickel-plated, and guaranteed against flaws and imperfections.

Contents: Incisor Cutter 390, Open Cutter 378, Closed Cutter 379, Extractor 377, Pair Handles 381, Straight Nipper 386.....Price \$55.55

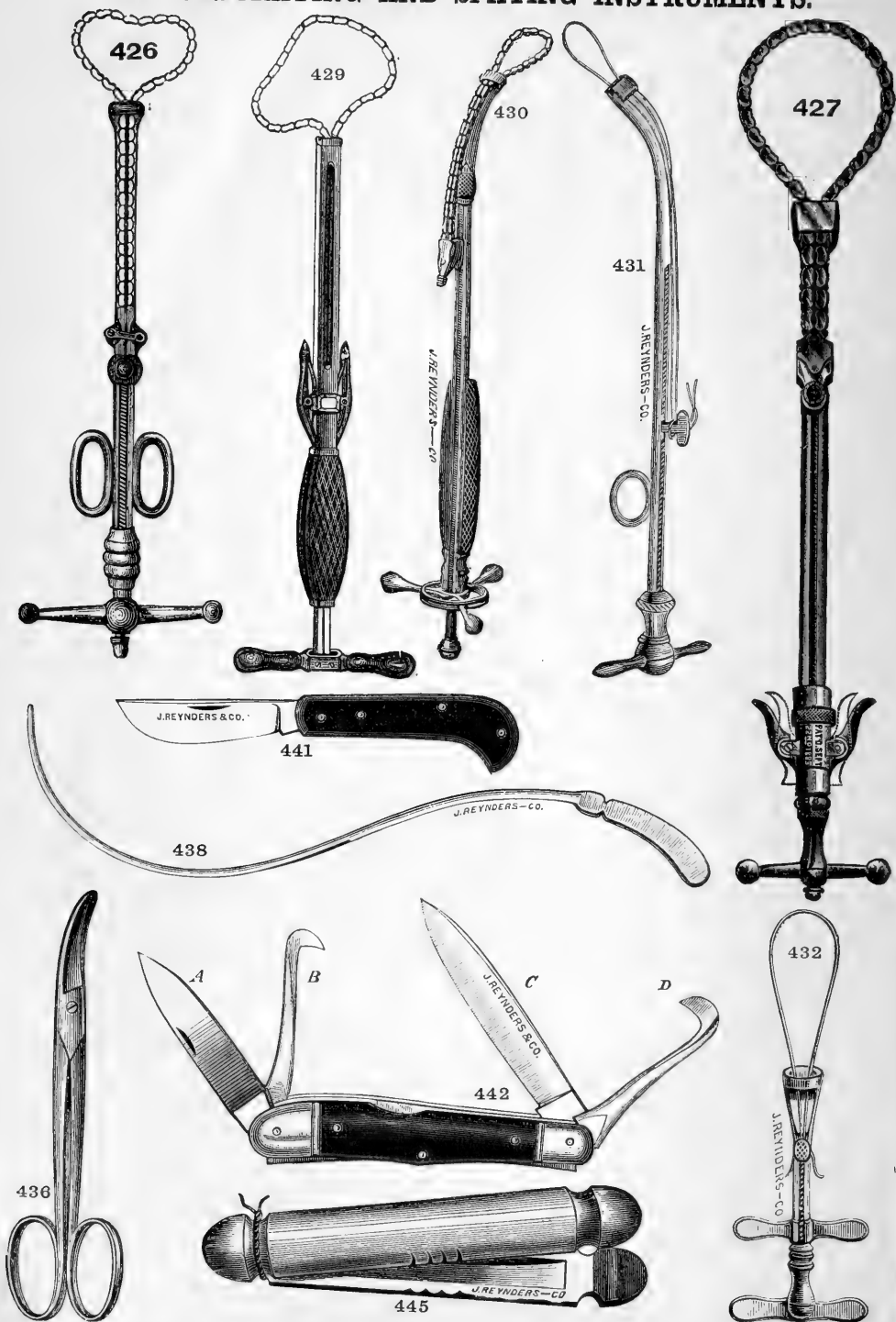
The same with Wolf Tooth Forceps large, Wolf Tooth Forceps small, Jointed Float, Trepine, Bone Holding Forceps 400, Knee Bent Scissors, Metacarpal Saw, Spring Catch Artery Forceps, Hook, Scalpel, Drill, Screwdriver, Tooth Brush, Elevator, Scoop, Dissecting Forceps. All in valise-like case..... 100.00

Any alterations desired carried out.

See also page 53.

All Instruments Illustrated are designated by a *

II. CASTRATING AND SPAYING INSTRUMENTS.



II. CASTRATION AND SPAYING.

ANIMAL CASTRATION, by A. Liautard, M. D. V. S., with 44 illustrations embodied in the text.

CONTENTS: Definition. Classification by Three Methods. Methods of the Second Class. Methods of the Third Class. Complications and Treatment. Castration of Females. Conclusion Price \$2.00

INSTRUMENTS.

- 426.* Ecrasseur, Farmer Miles' latest style..... \$13.33
 427.* Same as modified by Shaffer..... 16.66
 428. Extra Chain for either (Every one should have one with his Ecrasseur). 5.55
 With both 426 and 427 the head is so arranged that hemorrhage is impossible, and at the same time it leaves no part of the cord uncut. All that is required to insure perfect success with these instruments is to avoid unnecessary haste in severing the cord.
 Both have an arrangement by which the slack of the chain is taken up *at once*, which makes it possible to operate a little faster than with the old style Miles' instrument.
 429.* Ecrasseur, Mason's straight \$15.00; curved 16.66
 430.* " Chase's " 19.00; " 22.00
 431.* " Wire, straight or curved 5.00
 432.* " short 4.50
 433. " for Spaying, Liautard's 18.50
 434.* Vaginal Distendor to be used with 433 8.00

435. Hind Leg Spreader, Farmer Miles'. \$6.66

436.* Spaying Scissors, Farmer Miles, 14½ in., for dividing the broad ligament 6.66

436a. Same, Liautard's, fig. 33, page 118, his book, 17 in 9.00

437. Spaying Needle, Farmer Miles', two sizes each 0.60

438.* Spaying Sound, Farmer Miles' 0.85

439. Ovary Torsion Forceps, Slide, see pages 118 and 127 Liautard's book. 15.00

440.* Serrated Scissors, Clark's 5.00

441.* Knife, American 1.50

442.* " Farmer Miles', four-bladed ... 5.55

443.* " Same, two-bladed, "B. D." ... 3.00

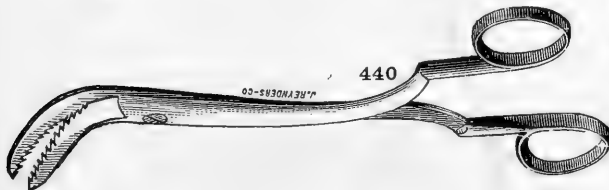
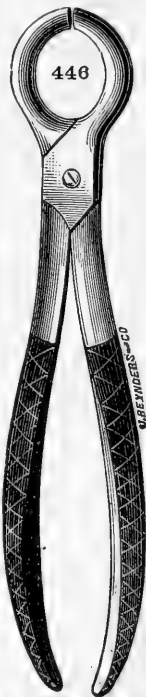
444.* " " one-bladed, "D." 2.00

445.* Clamps, per pair, of Wood 0.50

446.* " Forceps for closing same ... 5.50

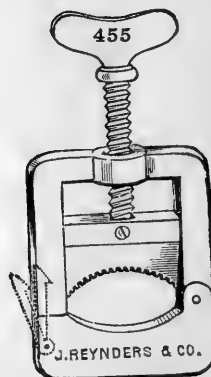
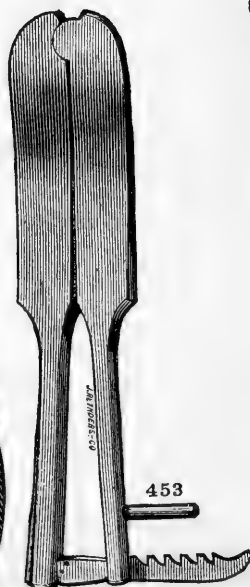
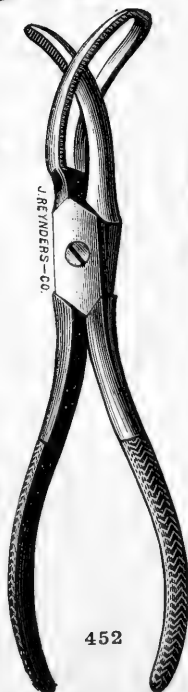
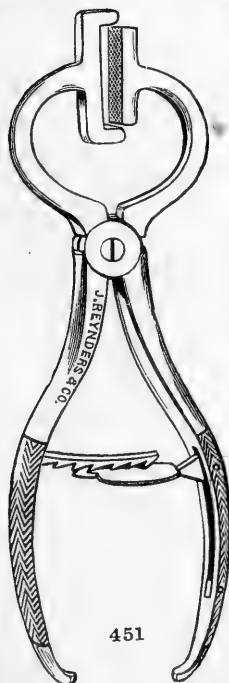
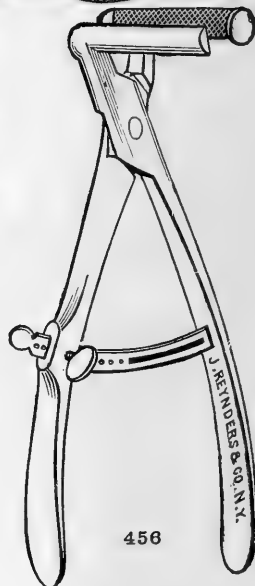
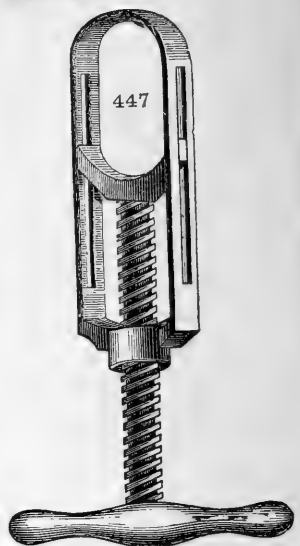
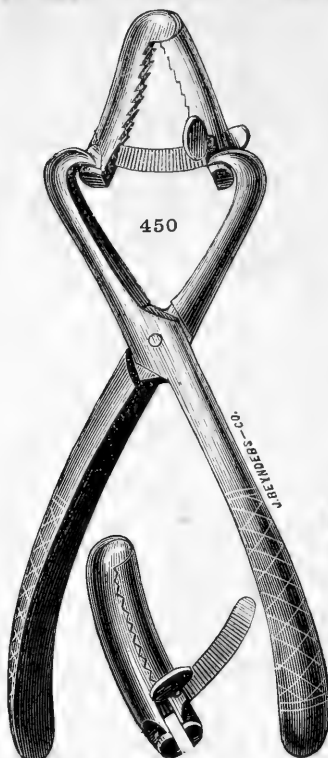
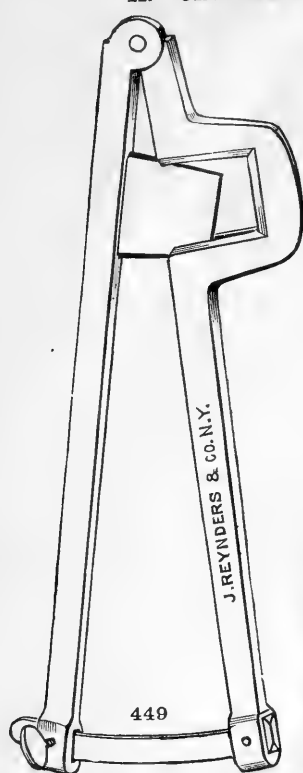
447.* " Screw for same, see page 14, upper right corner 4.00

448.* Clamps, Scissors for separating same. 5.50

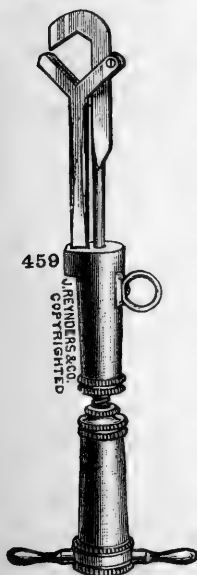
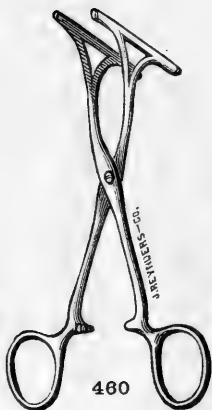
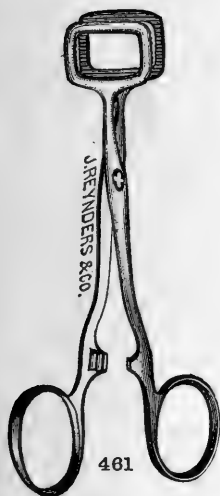
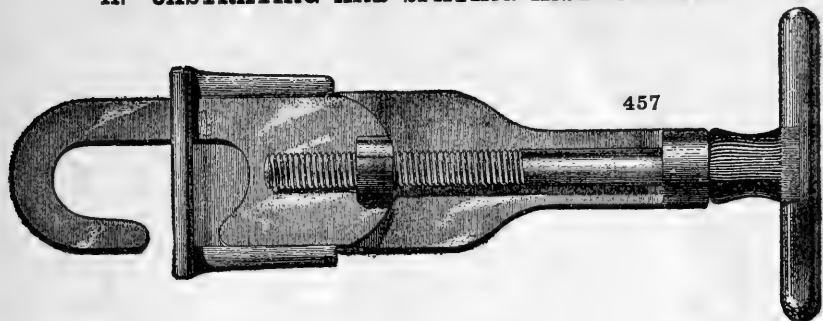


All Instruments Illustrated are designated by a *

II. CASTRATING AND SPAYING INSTRUMENTS.



II. CASTRATING AND SPAYING INSTRUMENTS.



449.*	Clamp, Perier's.....	\$8.00
450.*	" Set J. R. & Co.'s of three	15.00
451.*	" Reynal's.....	8.25
452.*	" Berlin.....	8.00
453.*	" with spring regulating ratchet.....	5.50
454.	" Same with sliding hook catch.....	4.75
455.*	" House's.....	7.77
456.*	" WILLIAMS'.....	6.00
457.*	Castrator, Pratt's \$5.00;* with Liautard's book.....	*6.00
458.*	" Halstead's.....	*10.00
459.*	" Adams'.....	16.50
460.*	" for small animals.....	4.50
461.*	*Spaying Forceps, Bland's.....	3.33
462.*	" " ".....	3.33
462a.	" " " resembles Scissors No. 796,	
	page 47.....	4.00

Cautery or Firing Irons, see under Sundries: "Cautery Irons."

All Instruments Illustrated are designated by a *

III. INSTRUMENTS FOR FOOT AND HOOF.



ZUNDEL: THE HORSE'S FOOT AND ITS DISEASES, translated by A. Liautard, M. D. V. S. 12 mo., cloth, illustrated.

CONTENTS: Anatomy. Diseases and Defectuosities of the Foot. Vices of Conformation. General Operations and Dressings. Canker of the Foot. Corns, Sand Cracks, etc. Punctured Wound of the Foot. Contracted Heel, hoof bound. Diseases of the Frog. Laminitis. Navicular Disease. Quittor and its Varieties. Price \$2.00

LAMENESS OF HORSES, by A. Liautard, M. D. V. S.

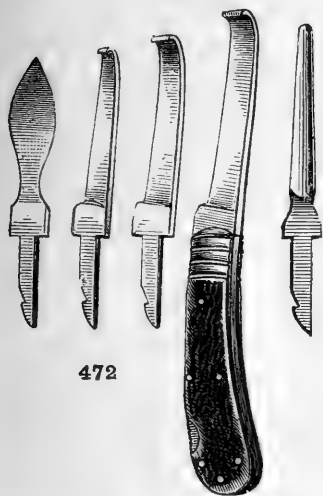
CONTENTS: Descriptive Definition. General Consideration. Diseases of the Bones, Joints, Muscles, Tendons, Shoulder, Elbow, Knee, Hip, Stifle, Hock, Joints, Digital Region. Diseases of the Foot. Appendix. 390 pages. Price \$2.50

INSTRUMENTS AND APPLIANCES.

463.*	Drawing Knife,	common	.....	\$*0.50
464.**	"	single edged; the two figures show natural size; four other sizes between these two	..... each	1.11
465.*	Drawing Knife,	single edged, French	.....	1.25
466.**	"	double " broad	.....	1.25
467.*	"	" " narrow	.....	1.25
468.*	"	" for Pocket	..... one-bladed \$1.66; two-bladed	2.00
469.**	Sage	curved or flat, edge right and left	..... each	1.25
470.*	"	" double edged	.....	1.50
471.*	Hoof Spreader with Screw Key	.....	.....	8.00

All Instruments Illustrated are designated by a *

III. INSTRUMENTS FOR FOOT AND HOOF.



472

- 472.* Drawing Knives, set of; consisting of three drawing knives of assorted sizes, one sharp pointed double edged sage knife and one reamer, fitting into one handle, with spring catch. In wrapper case..... \$7.50
473. Drawing Knives, set of; consisting of two drawing knives of assorted sizes and one sharp pointed double edged sage knife fitting into one improved spring catch handle. Very neat and compact, intended for small pocket cases 5.00
474. Drawing Knives, set of; consisting of one single edged drawing knife for searching, two double edged drawing knives of assorted widths of curve, one sharp pointed double edged sage knife, one single edged right sage knife, one single edged left sage knife, all in ebony handles, French model. One plain forceps, one sharp pointed curved or flat scissors, one director and one silver probe; in mahogany case. Prof. A. Liantard's 13.33

See also page 58.

Description of the New Set of Instruments for Closing Quarter and Sand Cracks in Hoofs.

[From the "Spirit of the Times."]

Our attention has recently been called by Mr. Reynders, Surgical Instrument maker, of 303 4th Ave., to an improved method of closing cracks and fissures in the horse's hoof. The drawing will indicate the form of the apparatus, which consists essentially of two parts; an instrument for puncturing the hoof—a powerful pair of forceps for compressing the ends or points of the clamps into the hoof. Punctures on each side of the crack in the wall of hoof are effected by the cautery at red heat, to a sufficient depth to insure secure hold of the clamp, which, by means of the forceps, is first pushed firmly into the punctures made by the cautery, and then the ends of the clamps are carefully compressed by the forceps, using no greater force than the animal will bear without pain. We have used these clamps in a number of cases with complete success.

- 475.* There are three sizes of pointed wire clamp, as shown by figure. Each, per doz..... \$0.50
- 476.* Each size of clamp requires a firing iron to match. Price of each 2.00
- 477.* Smaller Clamp Closing Forceps will do for the two smaller sizes of clamps. Price..... 5.50
- 478.* The largest clamp requires an extra Closing Forceps..... 5.50
- 479.* Closing Forceps with insertable parts adopting to any size of clamps..... 10.50

480.* Stuffing Boots:



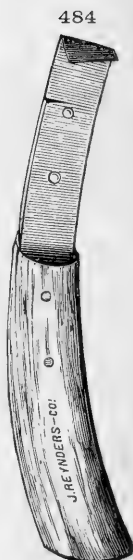
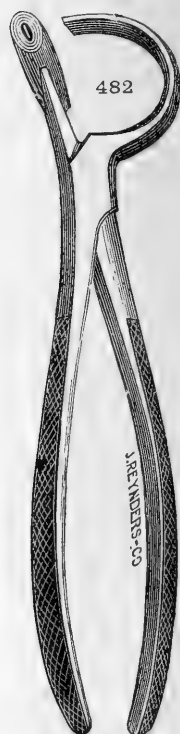
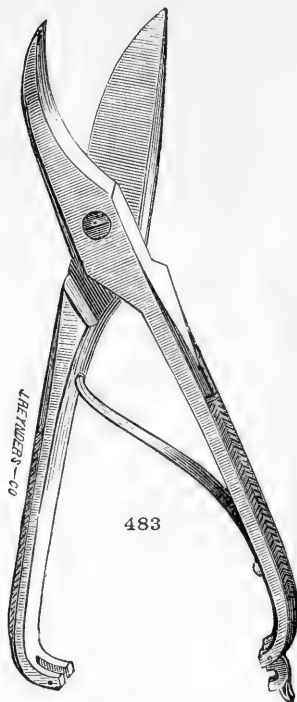
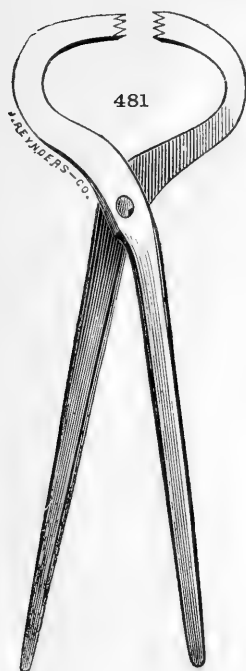
J. REYNDERS & CO.

Boots, Stuffing.	No. 1, $4\frac{1}{2} \times 5\frac{1}{2}$ in. shoe measure.....	each	\$2.75
"	" " No. 2, $5 \times 6\frac{1}{2}$ " " "	"	3.00
"	" " No. 3, $5\frac{1}{2} \times 6\frac{1}{2}$ " " "	"	3.33
"	" " No. 4, 6×8 " " "	"	3.60

This boot is a perfect luxury to the horse, as he can walk about or lay down at his own pleasure while using it, and is much more effective than the old method of sponge, cloths, etc. They are held in position by their own elasticity, therefore doing away with straps and buckles.

All Instruments Illustrated are designated by a *

III. INSTRUMENTS FOR FOOT AND HOOF.



481.*	Hoof Testing Forceps, smaller pattern	\$2.11;
	larger, adapted to all cases.....	\$3.33
482.*	Hoof Testing Forceps, Varnell's.....	4.00
483.*	“ Cutting “	4.25
484.*	Drawing Knife, Fleming's	2.50
485.*	Rasp for Periplantaire Shoeing.....	2.00
485a.	Charlier's Plane for Periplantaire Shoeing.....	3.50
485b.	Model of Periplantaire Shoe.....	1.00
486.	Contrivance for Ascertaining the Angle of Toe or Foot, Fleming's.....	5.00
487.	Contrivance for Ascertaining Angle of Sole to Perpendicular Axis of Fore-Leg.....	9.00

FOR HOOF AND FOOT SETS other than mentioned on page 17 see page 58.

FOR MODELS OF HORSES' LEG AND FOOT see pages 62 and 63.

All Instruments Illustrated are designated by a *

IV. NEEDLES AND LIGATURES.

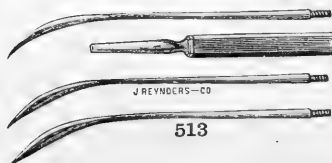
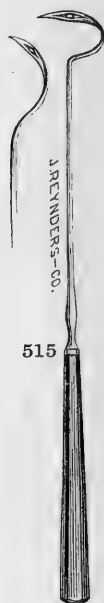
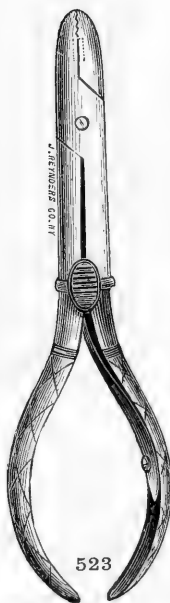
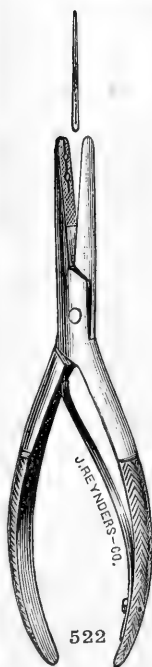
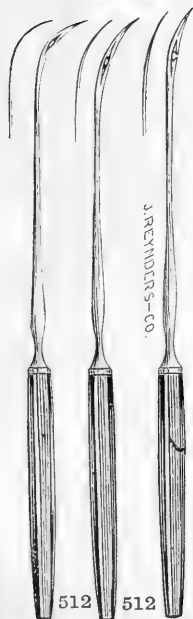
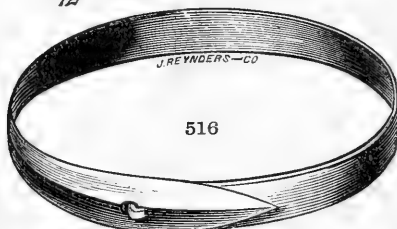
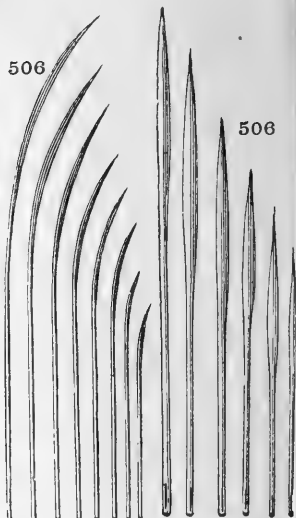


Rowelling Scissors, see page 47.

All Instruments Illustrated are designated by a *

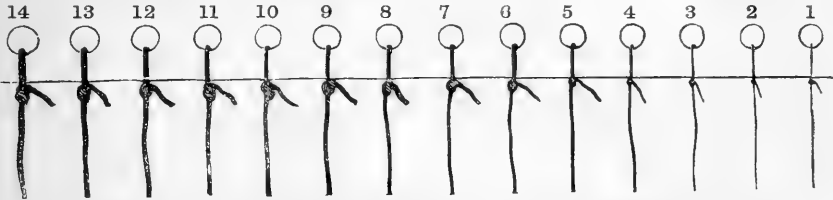


IV. NEEDLES AND LIGATURES.



IV. NEEDLES AND LIGATURES.

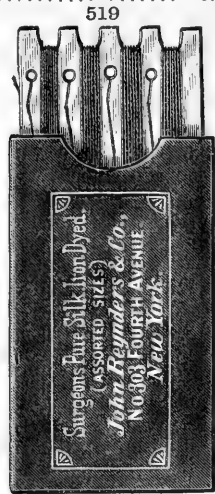
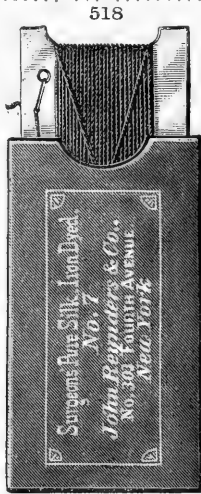
506.*	Suture, Nos. 1, 2, 3 and larger, straight, half and full curve; each	\$0.15; per poz.	\$1.25
507.*	" No. 4 and smaller	" 0.10; "	0.90
508.	" into which soft Metal Wire is to be screwed		0.50
509.	" soft Metal Wire for same	per coil	0.40
510.*	" Riverdin's, hollow for Silver Wire	\$5.00; plain	2.50
511.*	" Gerlach's, two of assorted sizes and one sharp hook, fitting all into one spring catch handle		3.33
512.*	" in handle, assorted	each	1.25
513.*	" " " set of three, Copeman's		2.50
514.*	" " " " New		2.50
515.*	" " " spiral, right and left	each	1.50
516.*	" " for Vaginal Wounds, Sanberg's		1.11
517.	Silk for Ligatures and Sutures	per skein	0.05



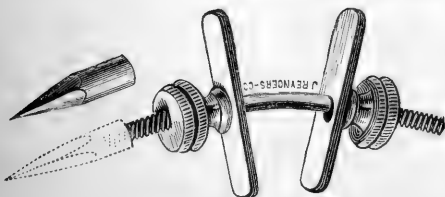
The above illustration shows the approximate size in which the following varieties of silk can be furnished. It may also serve for designating size of Catgut and Silver Wire.

518.*	Silk, per Slip Case, one size	plain \$0.20; braided	\$0.30
519.*	" " " " four sizes	" 0.45; "	0.60
520.*	" " Reel		0.11
521.*	" " Cable Twist, per Hank Nos. 4, 7, 10 and 13	\$0.30	
522.*	" Needle Holder, plain	2.00	
523.*	" " and Wire Cutter	3.00	

524. Catgut Ligature, dry, per coil \$0.25
" " in antiseptic oil, per bottle 0.60



RUSSEL'S SUTURE INSTRUMENT.



Extract from *Veterinary Journal*, January, 1881:—
"The accompanying suture can be advantageously used in the place of wire, skewers, or string, in all deep-seated wounds where a deep suture is required to keep parts in apposition, and to prevent superficial sutures from being torn out, also to prevent protrusion or prolapsus of the vagina or uterus in herniæ of various kinds, etc. Some of the advantages of this suture are that it does not tear out; if parts swell, it can be loosened, and when the swelling abates it can be tightened up again. It is easily and readily adjusted. It remains nicely as placed, looks what it is, and gives general satisfaction. When required for use, all that

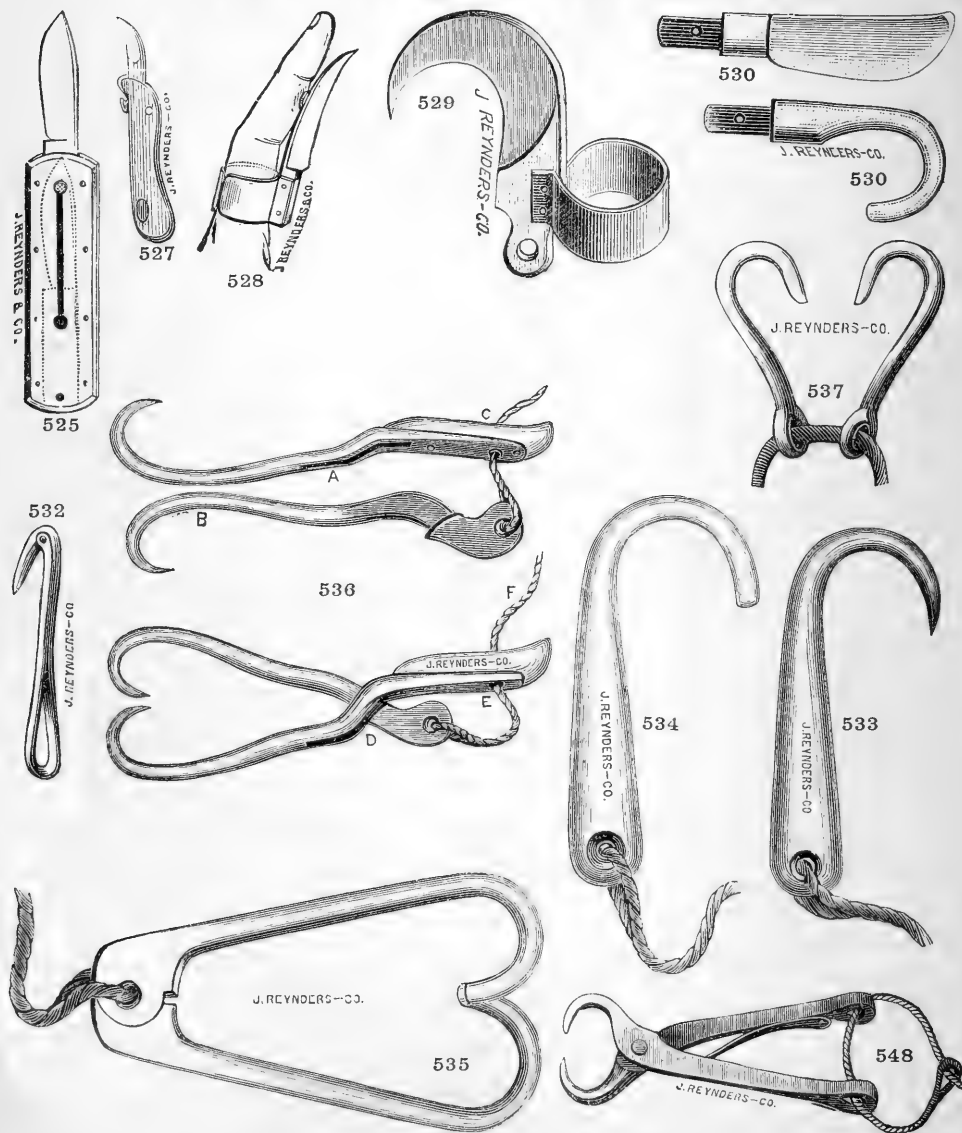
All Instruments Illustrated are designated by a *

IV. NEEDLES AND LIGATURES.

it is necessary to do is to put one of the 'plates,' with the beveled edge inwards, over one end, and behind that a thumb-screw, and on the other end screw on the trocar point. Then push it through the parts, remove the point, and add a plate and thumb-screw as on the other end; then screw up the thumb-screw as tight as necessary. I have had them made up in four pairs, measuring $3\frac{1}{2}$, 5, $6\frac{1}{2}$, and 8 inches long respectively. They are made of steel wire, about $\frac{3}{16}$ inch in thickness, slightly curved. At each end of the wire a deep thread is cut, upon which fit a trocar point on one end and a plate and thumb-screw on the other. For the requirements of the various sutures, plates of metal of different lengths are provided—viz., four plates with one hole in the center of each, and two plates with two holes for a double suture; the former are about 2 inches long, the latter $3\frac{1}{4}$ inches, the holes being from an inch to an inch and a half apart in the latter. The inside edges of all these plates are beveled off to prevent undue pressure or cutting. There are two trocar points with each set of sutures, which screw on either end of the wires, and four thumb-screws, also interchangeable. The plates are made of steel, the nuts of brass, but all the parts are nickel-plated, to prevent rust or corrosion. The sets are neatly mounted in a case—viz., four pairs of sutures of different lengths, two trocar points, six plates, and four screw-nuts."

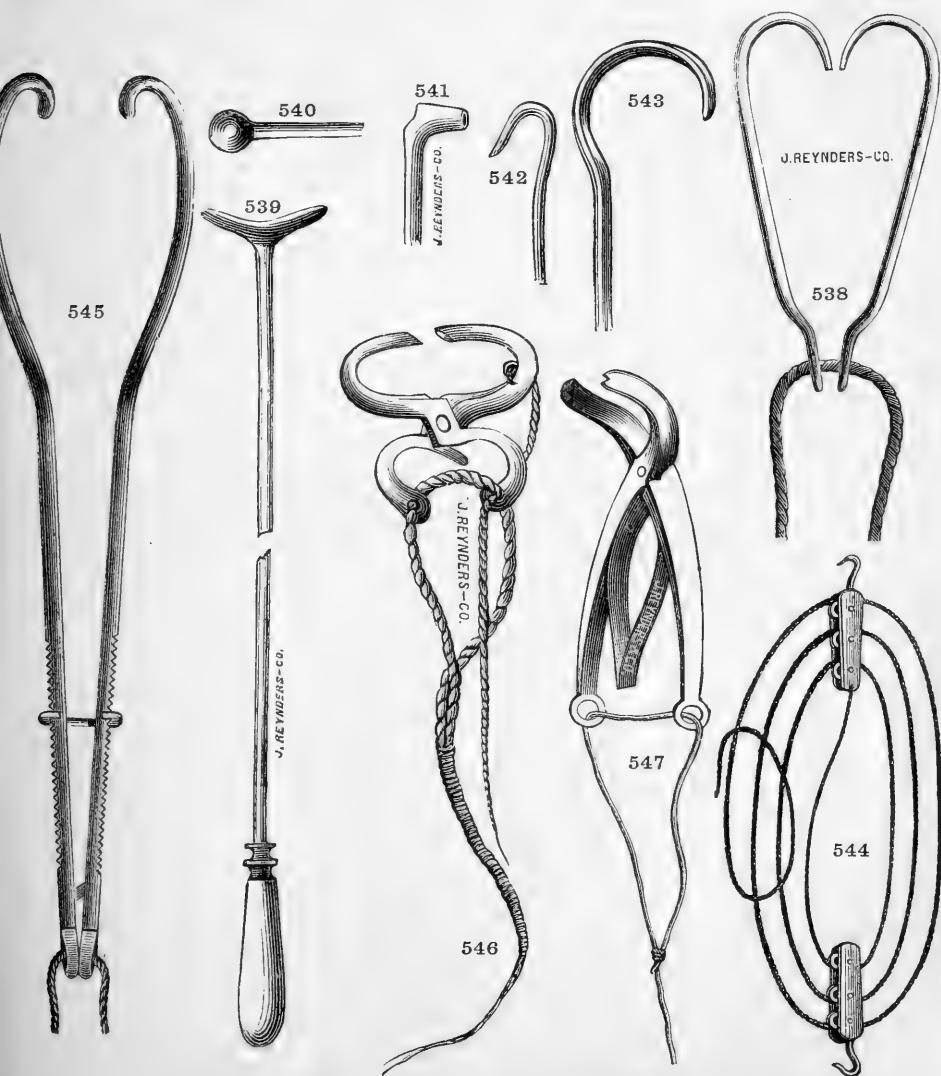
Price, in Leather Case, complete..... \$9.00

V. OBSTETRICS OR PARTURITION.

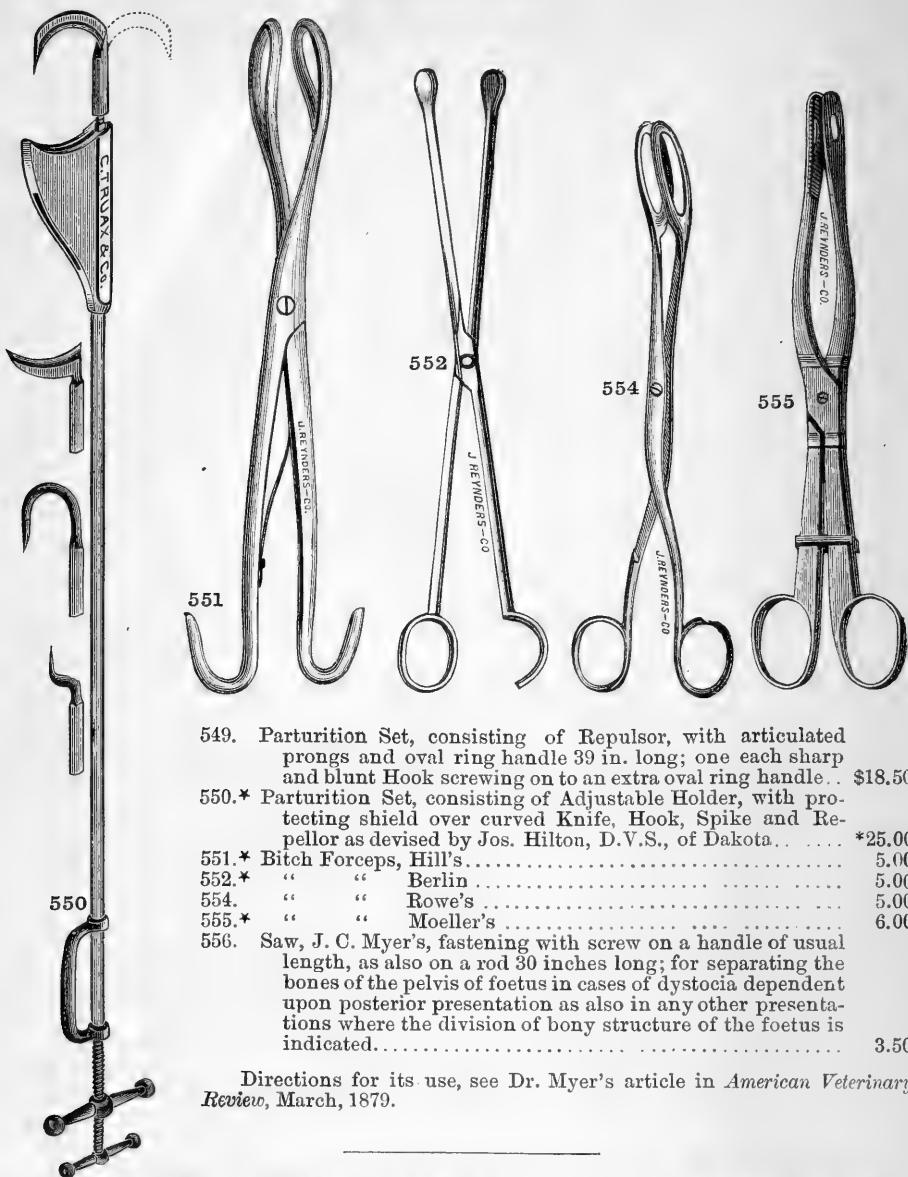


V. OBSTETRIC OR PARTURITION.

525.*	Embryotomy Knife,	concealed in h. r. handle	\$3.75
526.*	"	" Same, probe-pointed	3.75
527.*	"	" concealed, French	3.75
528.*	"	" with finger ring	1.50
529.*	"	" " "	1.50
530.*	"	" Same, with probe-pointed blade and hook adjustable to same ring	6.00
532.*	Fole Hook, articulated,	blunt or sharp	each
533.*	"	" for dead, sharp	3.33
534.*	"	" " alive, blunt	1.00
535.*	"	" " folding	1.00
536.*	"	" double, Fleming's	2.50
537.*	Eye Hooks,	" "	5.00
538.*	Flank "	" "	per pair
539.*	Repulsor, 30 in. \$2.50; same with one prong articulated	\$4.44; either with jointed handle respectively.	1.25 2.50
540.*	Sling Carrier, straight handle like 539.		\$3.00 and 5.00
541.*	" " curved	" 539.	2.50
542.*	Sharp Hook, handle like 539.		2.50
543.*	Blunt " "	" 539.	2.50
544.*	Pulleys, Compound.		5.00
545.*	Obstetric Forceps, Gunther's, 36 in.		13.33
546.*	" " Andrews's		6.00
547.*	" " Talish's		6.00
548.*	" " Blaine's		5.00



All Instruments Illustrated are designated by a *



549. Parturition Set, consisting of Repulsor, with articulated prongs and oval ring handle 39 in. long; one each sharp and blunt Hook screwing on to an extra oval ring handle. . . \$18.50
- 550.* Parturition Set, consisting of Adjustable Holder, with protecting shield over curved Knife, Hook, Spike and Repulsor as devised by Jos. Hilton, D.V.S., of Dakota. . . *25.00
- 551.* Bitch Forceps, Hill's. 5.00
- 552.* " " Berlin 5.00
554. " " Rowe's 5.00
- 555.* " " Moeller's 6.00
556. Saw, J. C. Myer's, fastening with screw on a handle of usual length, as also on a rod 30 inches long; for separating the bones of the pelvis of foetus in cases of dystocia dependent upon posterior presentation as also in any other presentations where the division of bony structure of the foetus is indicated. 3.50

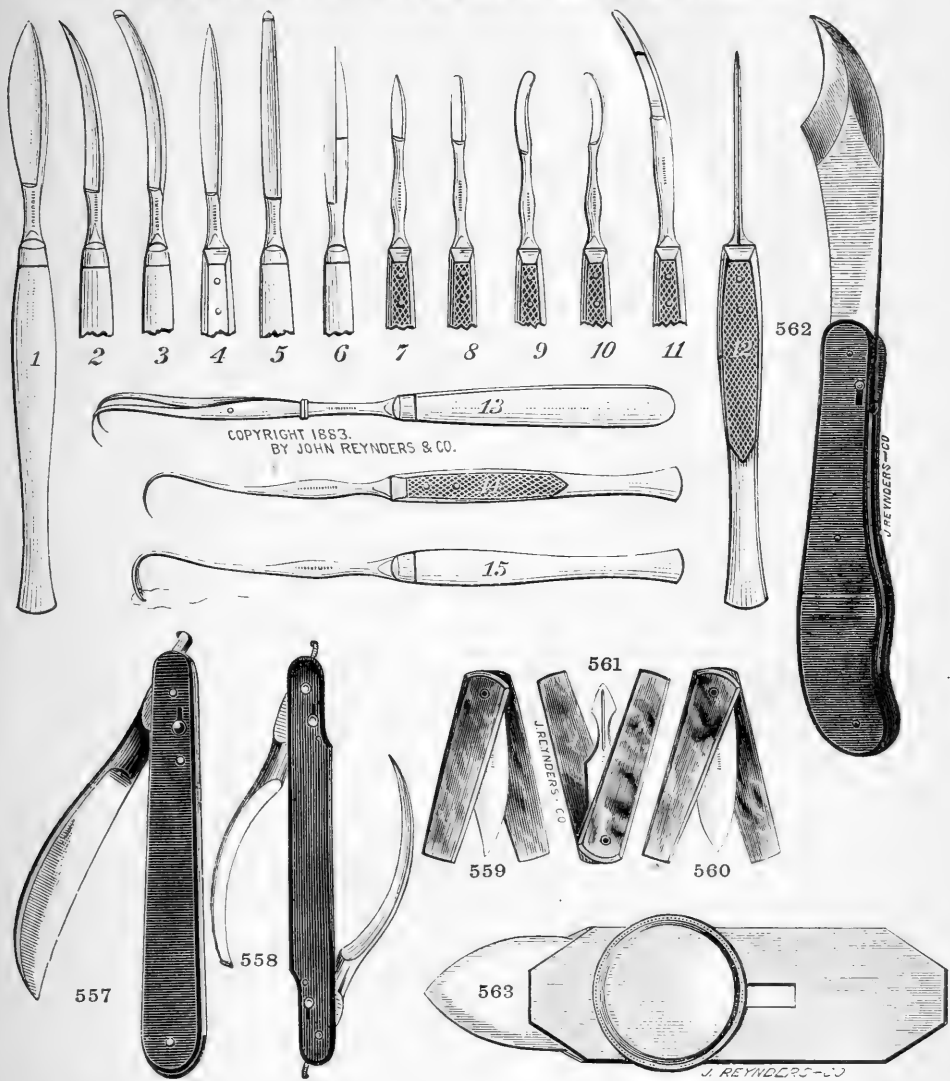
Directions for its use, see Dr. Myer's article in *American Veterinary Review*, March, 1879.

VI. KNIVES OTHER THAN PREVIOUSLY MENTIONED.

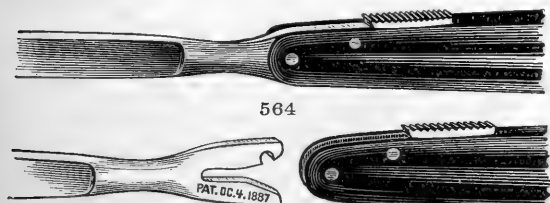
- | | |
|-------------------------------------|-------------------------------|
| 1. Scalpel. | 8. Tenotome, straight, blunt. |
| 2. Bistoury, curved, sharp-pointed. | 9. " curved, convex. |
| 3. " " probe-pointed. | 10. " " concave. |
| 4. " straight, sharp-pointed. | 11. Hernia Knife. |
| 5. " " probe-pointed. | 12. Exploring Needle. |
| 6. " " double edge. | 13. Double Hook. |
| 7. Tenotome " sharp-pointed. | 14. Single " |
| | 15. Aneurism Needle. |
- Either of above except 13, stiff in ebony handle. \$0.80
- " " " " " ivory " 1.25
- " " " " " in handle like 557, slide catch. 1.66
- " " " " " no catch. 1.11
558. Either (1 and 4), (2 and 3). joined and with slide catches \$3.00; no catches 1.66

All Instruments Illustrated are designated by a *

VI. KNIVES OTHER THAN PREVIOUSLY MENTIONED.



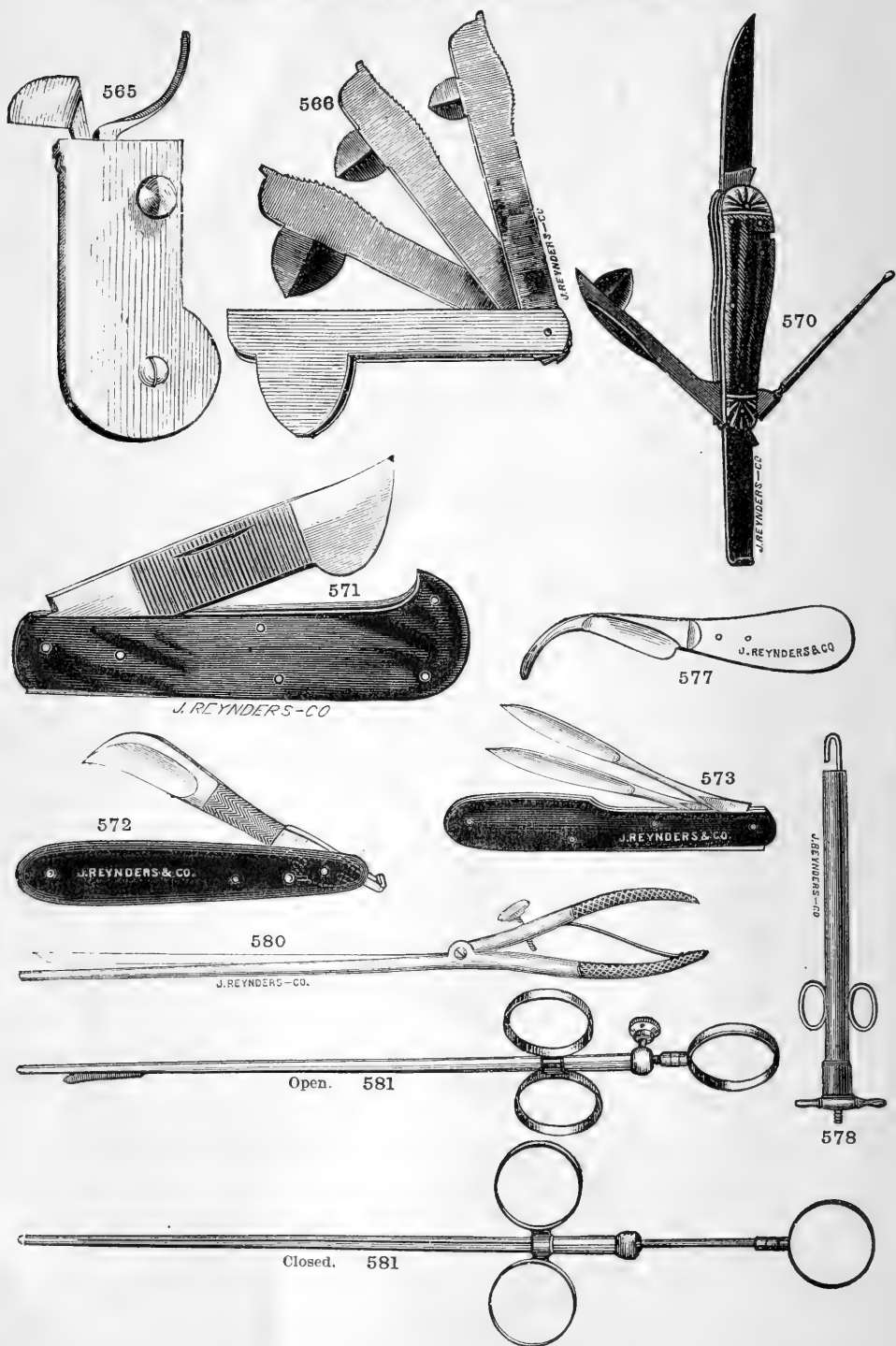
559.* Abcess Lancet.....	\$0.80
560.* Thumb ".....	0.80
561.* Spear ".....	0.80
562.* Long ".....	1.50
563.* Slide ".....	1.66



The annexed figures show our patent catch handle, to which we make every one of the blades 1 to 15.
Handle.....each \$0.90
Blades....." 0.90

See also page 61.

VI. KNIVES OTHER THAN PREVIOUSLY MENTIONED.

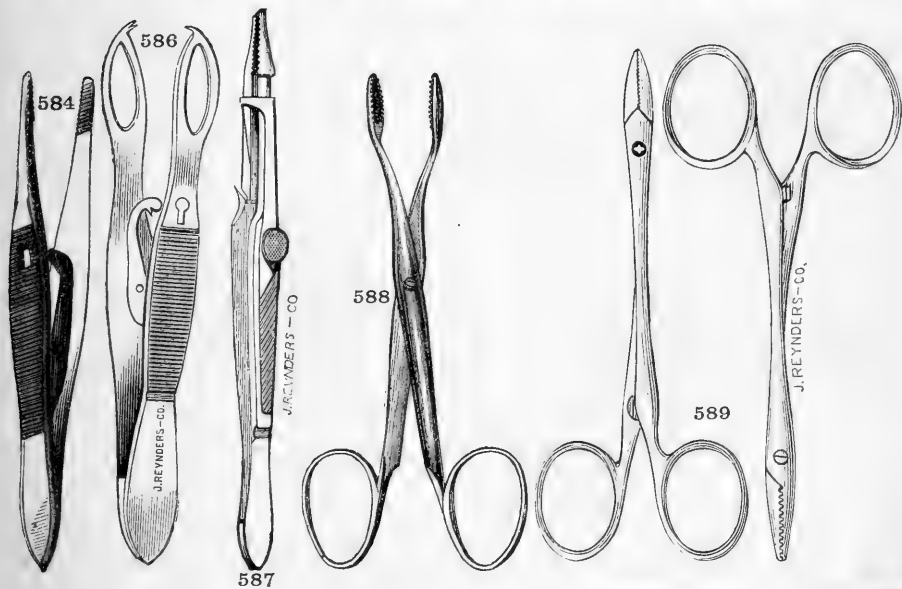


VI. KNIVES OTHER THAN PREVIOUSLY MENTIONED.

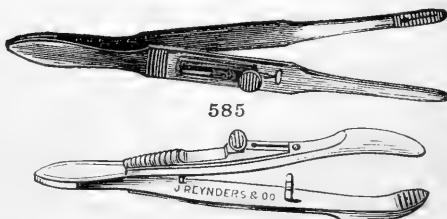
565.*	Spring Lancet.....	plain	\$2.00; guarded	\$2.50
567.*	Fleams, plain.....	one blade	\$1.00; two blades \$1.25; three blades	1.50
567.*	“ fine.....	“ “	1.66; “ “ 2.00; “ “	2.50
568.	Blood Sticks for same.....	plain	50 cts.; filled with lead	1.66
569.	Manifold Knife, for pocket, containing two Fleams, Hoof Knife, Lance and Probe			2.50
570.*	“ “ “ “ “	Fleam, Hoof Knife, Jack and Probe.....		5.00
571.*	Nicking, English.....			1.75
572.*	“ French.....			1.75
573.*	Pricking, with spring backs.....	1 blade	\$2.00; 2 blades \$3.33; 3 blades	3.75
573a.	“ Fleming's, straight and probe-point, curved.....	each		1.25
574.	Periostotomy.....			1.50
575.	Neurotomy, straight edged, with blunt upward and laterally curved projection, right and left.....	each		1.66
576.	Neurotomy, curved, probe-pointed Bistoury, delicate.....			1.66
577.*	“ Fleming's, with eye near point.....			1.66
578.*	“ Hook with screw.....			3.50
579.	Delaford's Graduated Lancet and Grooved Needle for inoculating cattle, in case.....			6.00
580.*	Concealed Knife or Teat Slitter.....			2.50
581.**	“ “ “ “ “ with three rings (one fig. shows, blade concealed, the other exposed).....			3.33
582.	Concealed Knife like 580, 10 in. long.....			5.00
583.	“ “ “ “ “ 18 “ “ (Herniatome).....			7.50

See also Milking Tubes, X. Sundries, page 45.

VII. FORCEPS OTHER THAN PREVIOUSLY MENTIONED.

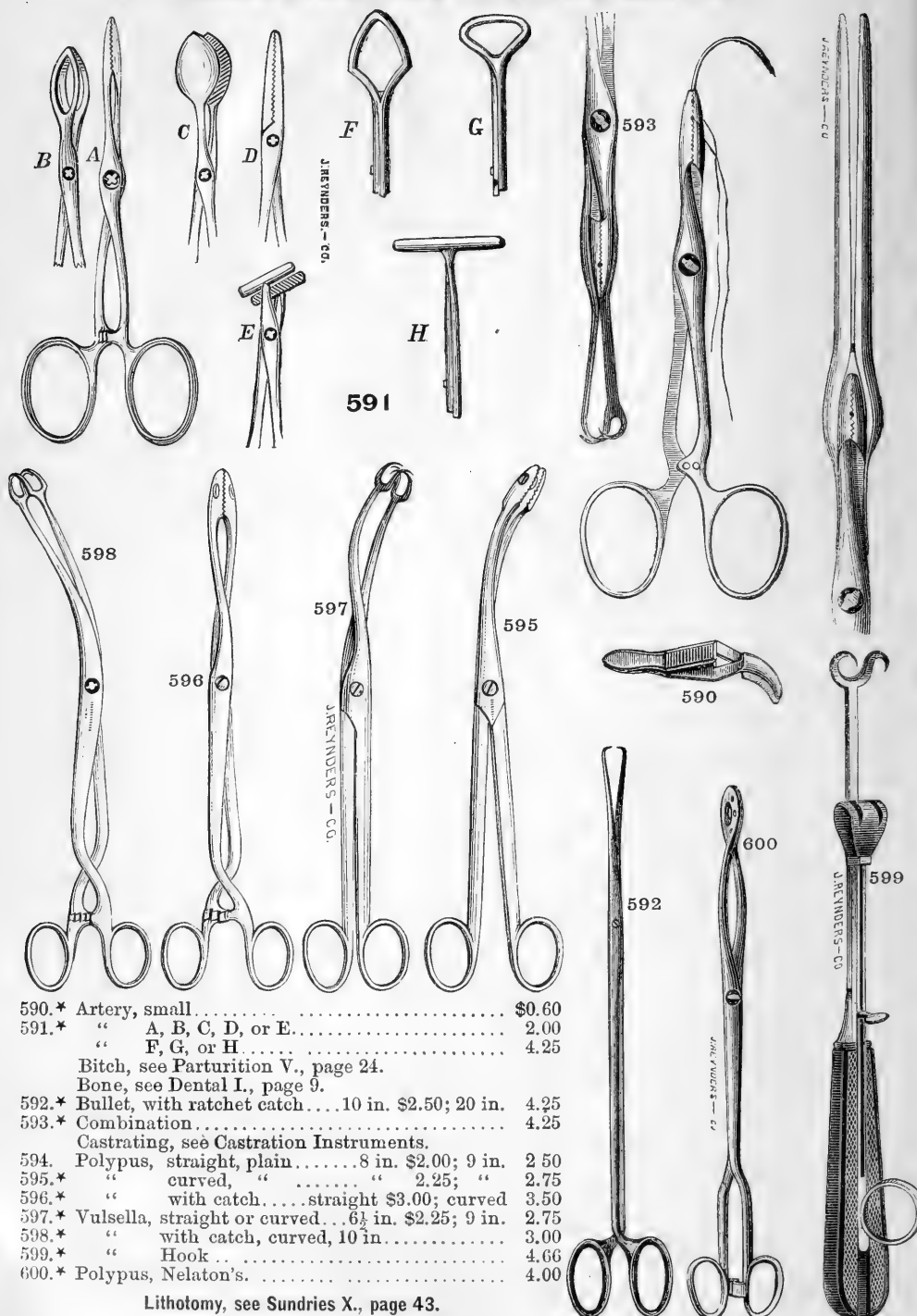


- 584.* Artery, plain 80 cts.; with spring catch \$1.25.
 585.* Artery, with slide catch, two styles @ \$2.00.
 586.* Artery, fenestrated, spring or slide catch, \$2.00.
 587.* Artery, Torsion, \$3.00.
 588.* Artery, Bow or Dressing, 5 in. \$1.00; 6½ in. \$1.66.
 589.* Artery, Pean's or Wyeth's, each \$2.00.



All Instruments Illustrated are designated by a *

VII. FORCEPS OTHER THAN PREVIOUSLY MENTIONED.



590.*	Artery, small	.....	\$0.60
591.*	" A, B, C, D, or E.	.....	2.00
	" F, G, or H.	.....	4.25
	Bitch, see Parturition V., page 24.		
	Bone, see Dental I., page 9.		
592.*	Bullet, with ratchet catch.	10 in. \$2.50; 20 in.	4.25
593.*	Combination	.....	4.25
	Castrating, see Castration Instruments.		
594.	Polypus, straight, plain	8 in. \$2.00; 9 in.	2 50
595.*	" curved,	" 2.25; "	2.75
596.*	" with catch.	straight \$3.00; curved	3.50
597.*	Vulsella, straight or curved	6½ in. \$2.25; 9 in.	2.75
598.*	" with catch, curved, 10 in.	.....	3.00
599.*	" Hook	.....	4.66
600.*	Polypus, Nelaton's.	.....	4.00

Lithotomy, see Sundries X., page 43.

All Instruments Illustrated are designated by a *

VIII. SYRINGES, ALL KINDS, AND PUMPS.

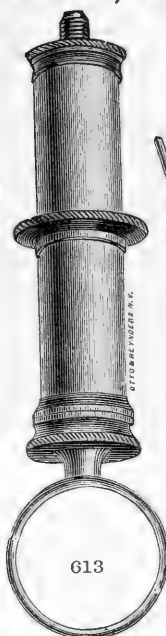
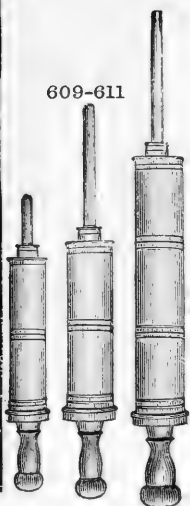
601-606.



600



609-611



613

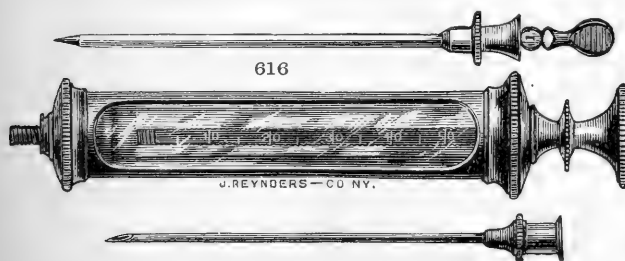
614



615



600.*	Syringe, h. r., with long straight pipe.....	1-oz. \$1.00; 2-oz. \$2.00
601.	“ “ “ straight pipe.....	$\frac{3}{4}$ -oz. 60 cts.; $\frac{1}{2}$ -oz. 80 cts.; $\frac{3}{4}$ -oz. 0.85
602.*	“ “ “ “.....	1-oz. 1.11
603.*	“ “ “ “.....	3-oz. 1.25
604.*	Enema, h. r., 6-oz., in paper box.....	1.66
605.*	“ “ “ 12-oz., “.....	2.11
606.*	“ “ “ 24-oz., “ wooden box.....	6.25
607.*	“ “ “ white metal, “ “.....	24-oz. 2.50
608.*	“ “ “ “ “ “.....	36-oz. 3.33
609.*	“ “ “ “ “ “.....	48-oz. 4.25
610.*	“ “ “ brass \$7.77; in wooden box.....	32-oz. 8.88
611.*	Quittor, h. r.	$\frac{3}{16}$ -oz. 0.66
612.	“ “ “ “.....	$\frac{1}{2}$ -oz. 0.60
613.*	Quittor, brass, 1-oz., two tubes.....	4.00
614.*	“ “ “ with finger rings, three tubes.....	$\frac{1}{2}$ -oz. \$3.33; 1-oz. 4.00
615.*	Inoculating Syringe, Oemler's.....	3.25



616

J. REYNDERS - CO NY.

616.* Syringe, Hypodermic:

Glass barrel, surrounded by metal protection fenestrated, needle, trocar and vial in morocco case.... 4.00

617. Same, with hard rubber fittings... 3.00

618. Same, Finley's hard rubber barrel with two needles, morocco case..... 2.50

619.* Syringe, Hypodermic, arranged for soluble hypodermic tablets. The same in neat case, measuring $7\frac{1}{4}$ in. long, $4\frac{1}{8}$ in. wide and $1\frac{3}{4}$ in. deep, comprises: A graduated syringe of the most improved construction, needle, trocar, trocar needle and a full assortment of Veterinary Tablets.

Prices: The whole complete.....	*15.00
Without Tablets.....	6.50
Needle only \$0.70; Trocar \$0.85; Trocar Needle.....	0.85

All Instruments Illustrated are designated by a *

VIII. SYRINGES, ALL KINDS, AND PUMPS.

HYPODERMIC TABLETS,* Soluble, Specially for Veterinary Use.

ORDER BY NUMBER
AND LETTER.

The use of these Tablets in any other Syringes but those made for such purpose is very inconvenient; the latter are, however, just as handy for the ordinary modus of hypodermic injection.

These tablets are in a form convenient for instant use and are unchangeable by age, thus insuring immediate solution. They combine absolute accuracy of dose with perfect preservation of the remedial.

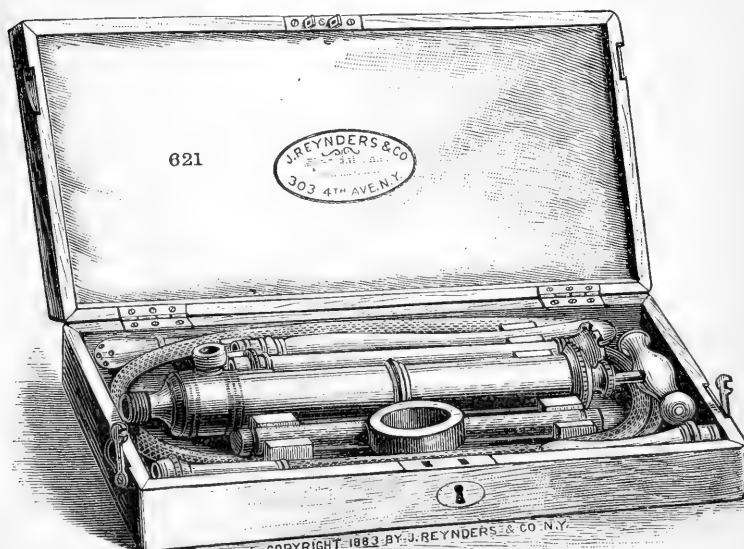
Veterinarians will find these tablets convenient for intra-venous and intra-tracheal medication.

Put up in Tubes of 10 Tablets each.

No.	Single Tube.	100 Tabs. or 10 Tbs.
100. Aconitine Crystals.....	1-20 gr. \$0.30	\$2.50
101. Atropine Sulphate.....	1-4 gr. 0.30	2.50
102. Cocaine Muriate.....	1 gr. 0.60	5.00
103. Colchicine.....	1-4 gr. 0.40	3.50
104. Conine Hydrobromate..	1-2 gr. 0.50	4.00
105. Digitaline.....	1-8 gr. 0.25	1.75
106. { Eserine Sulphate.....	1-4 gr.	
{ Pilocarpine Muriate.....	1-2 gr.	
{ Strychnine Sulphate.....	1-40 gr. 1.00	8.00
107. Hyoscyamine.....	1-8 gr. 1.25	10.50
108. Morphine Muriate.....	1 gr. 0.35	2.75
109. Morphine and Atropine..		
{ Morphine Sulphate.....	1½ gr.	
{ Atropine Sulphate.....	1 gr.	0.75
110. Pilocarpine Muriate.....	1-2 gr. 0.60	5.00
111. Sodium Arsenite.....	1 gr. 0.15	1.00
112. Strychnine Sulphate....	1-4 gr. 0.20	1.20

In Tubes of 12 each.
Please order by number.

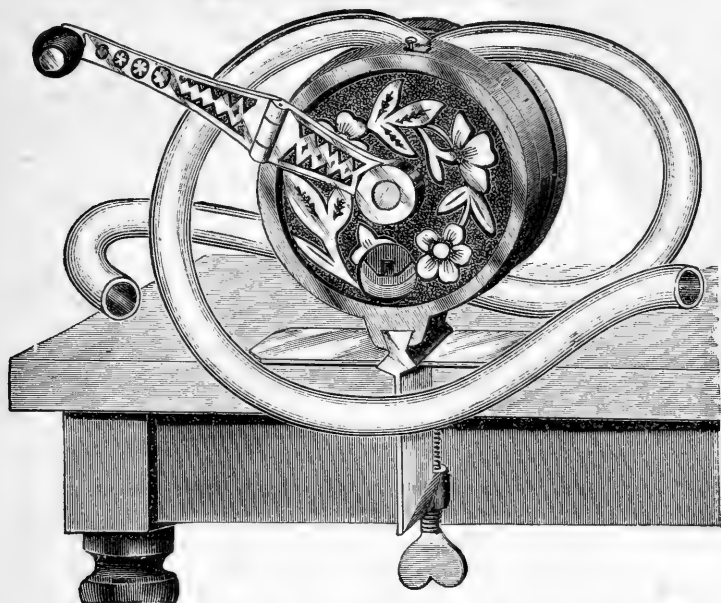
No.	Single Tube.	Doz. Tubes.
500. Aconitine Crystals.....	1-40 gr. \$0.25	\$2.25
501. Aconitine Crystals.....	1-20 gr. 0.35	3.50
502. Atropine Sulphate.....	1-4 gr. 0.30	3.00
503. Atropine Sulphate.....	1-2 gr. 0.50	4.50
504. Cocaine Muriate.....	1 gr. 0.70	7.00
505. Colchicine.....	1-4 gr. 0.30	3.00
506. Colchicine.....	1-2 gr. 0.60	4.50
507. Conine Hydrobromate..	1 gr. 0.70	7.00
508. Digitalin.....	1-8 gr. 0.25	2.00
509. Digitalin.....	1-4 gr. 0.30	2.50
510. Hyoscyamine.....	1-8 gr. 1.50	15.00
511. Morphine Muriate.....	1 gr. 0.50	4.00
512. Morphine Muriate.....	2 gr. 0.70	7.00
513. Morphine and Atropine (Morph. Sulph. 1½ gr. Atrop. Sulph. ½ gr.).....		
514. Physostigmine Salicylate..	1-4 gr. 0.85	8.50
515. Pilocarpine Hydrochlorate	1-2 gr. 1.00	11.00
516. Sodium Arsenite.....	1 gr. 0.70	7.00
517. Sodium Arsenite.....	1 gr. 0.15	1.50
518. Strychnine Sulphate.....	1-2 gr. 0.20	1.75
519. Strychnine Sulphate.....	1 gr. 0.25	2.50
520. Veratrine Hydrochlorate..	1-4 gr. 0.20	1.75
521. Veratrine Hydrochlorate..	1-2 gr. 0.25	2.25



620.* Pump, Injecting, brass, with thick, walled, soft rubber tubing, six feet, wooden pipe in canvas bag.....	\$15.00
621.* Same in mahogany polished case, velvet lined; brass pump, six feet superior elastic web tubing, ebony clyster pipe and ebony mouth gag.....	20.00
621a.* Clyster Funnel, Dickinson's.....	2.00

All Instruments Illustrated are designated by a *

THE ALLEN PUMP.



THE ALLEN SURGICAL PUMP

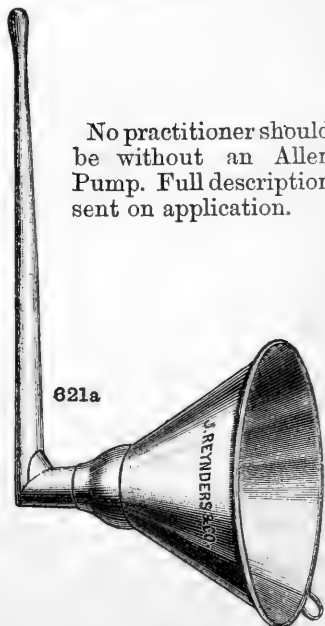
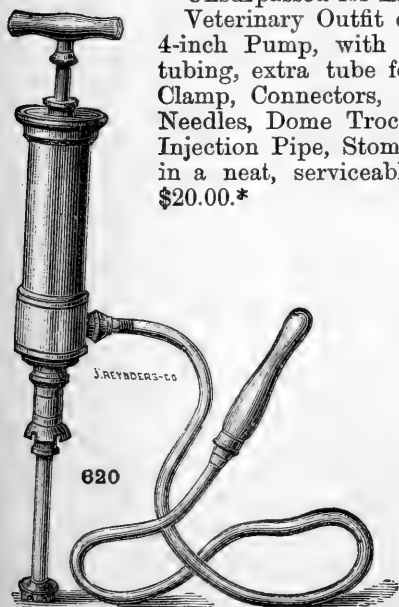
forms, by means of suitable attachments, an Aspirator, Injector, Stomach Pump, Bladder Syringe, Cupping Pump, etc., all of a superiority not elsewhere attained.

It makes the most powerful, rapid, safest and only aseptic Aspirator in use. As an Injector it can be used without admitting air with the fluid injected. It is most effective as a Stomach Pump.

As a Bladder Syringe it may be used with an ordinary Catheter.

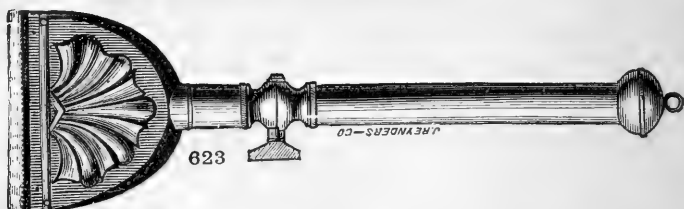
Unsurpassed for Litholapaxy.

Veterinary Outfit consists of a 4-inch Pump, with extra heavy tubing, extra tube for the same, Clamp, Connectors, 2 Aspirating Needles, Dome Trocar, Catheter, Injection Pipe, Stomach Tube, all in a neat, serviceable hand bag \$20.00.*

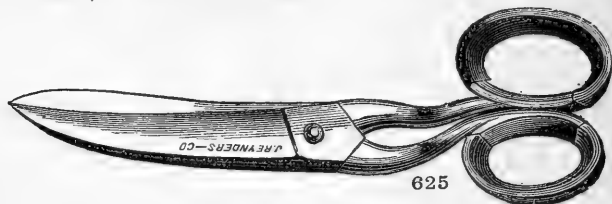


No practitioner should be without an Allen Pump. Full description sent on application.

IX. CLIPPING AND SINGEING.



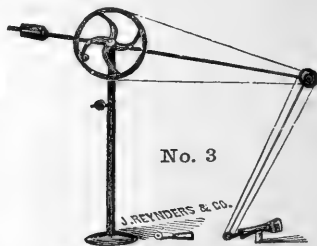
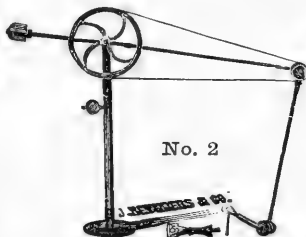
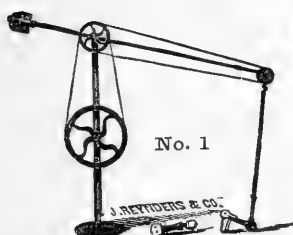
623. Singeing Apparatus, to be used with Alcohol.....\$2.50*
 624. Same, to be used with Gas..... 4.00*



625. Clipping Shears, full curved, with leather covered handles \$1.75*
 626. Same, plain handles... full curve \$1.25;* slight curve 1.00*

POWER CLIPPERS.—Warranted to give Satisfaction.

SHEEP POWER CLIPPERS SOLD ON TRIAL. APPLY.



- No. 1. Power Horse Clipper.....\$65.00*

This is the perfection of a Horse Clipper. It combines perfect freedom of motion with extensive range. The connection for conveying power from the boy who turns to the cutter in the handle is positive, and there is the least possible waste of power. It is easily kept in order. With this machine the purchaser can have a handle with rotary or vibrating cutters, at his choice. The rotary cutter is much the best for shearing the head and legs, and works nicely on the body of the horse, but some prefer the vibrating cutter because it cuts faster.

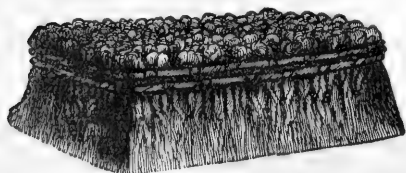
- No. 2. Power Horse Clipper..... 50.00*

The cutters and handles of this machine are precisely the same as those of No. 1. The machine is made on the same principle, but the parts which convey the power to the handle are shorter, and consequently the operator cannot reach as far and is obliged to move the machine oftener to clip all parts of the horse.

- No. 3. Power Horse Clipper.

This machine is the same size and has the same range as No. 2. It will be seen by the cut that the power is conveyed from the balance arm to the handle by a belt, but will do just as good work and just as fast as any other form of the machine.

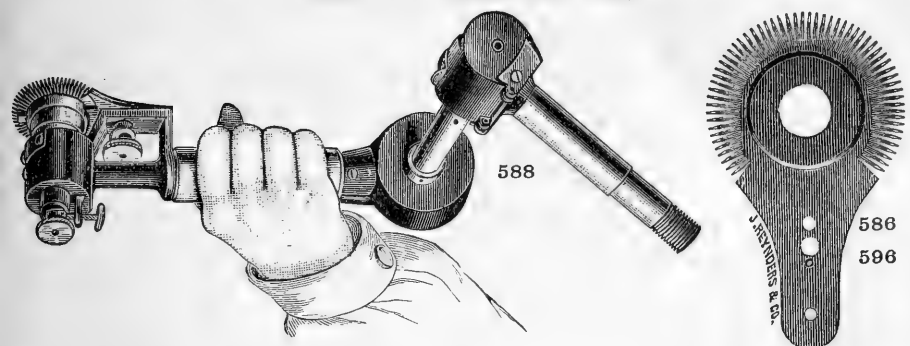
Price of this machine... ..with rotary handle \$40.00*; with vibrating handle 35.00*



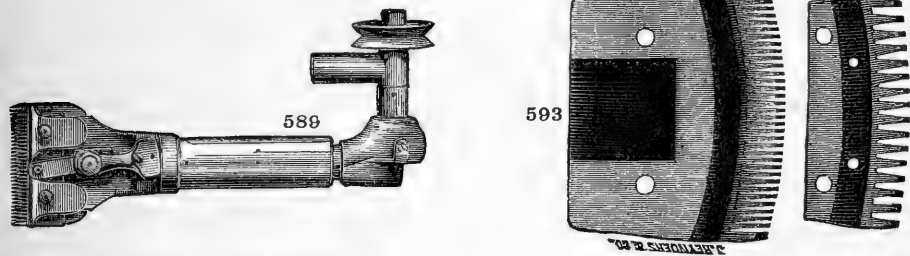
- 627.* For a Dry Scrub or a Wet Scrub after Power or Hand Clipping, use the Tropic Fiber Grooming Brush. Holds Water like a Sponge and does not become foul. Sample mailed on receipt of 35 cents.

All Instruments Illustrated are designated by a *

IX. CLIPPING AND SINGEING.
PARTS TO POWER CLIPPERS.



588. Rotary Handle, large or small, complete with one comb and 12 cutters.....\$25.00*
586. Rotary Comb, large.....\$4.00.* Same, 596, small..... 3.50*
587. Rotary Cutters, large, per. doz.. 3.00.* Same, 597, small, per doz..... 2.00*

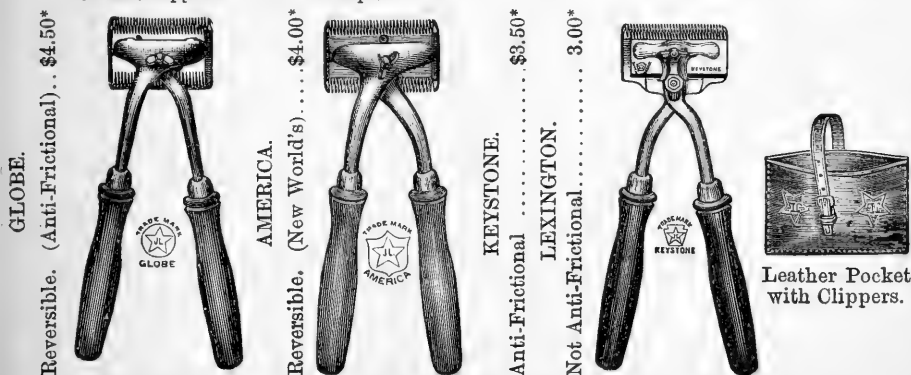


589. Vibrating Handle, complete.....\$25.00*
593. " Comb.....each 2.00*
594. " Cutter..... " 1.00*

HAND CLIPPERS—STAR BRAND.

ALL OF OUR CLIPPERS, from highest to lowest, are made of Superior Steel. They are tempered evenly all through, and will not only hold the edge originally put on them, but will take just as good an edge when re-ground.

Every genuine "Star Brand" Horse Clipper, except Brighton and Defiance, is nickel-plated, has handsome ebonized handles, is furnished with a leather pocket, and is accompanied by the manufacturers' certificate. The Toilet Clippers have neat box-caps.



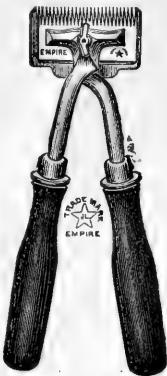


The merits of Reversible Clippers are too well known to need comment. The "Globe" has the new patent anti-frictional ball bearings. The "America" (or New World's) is an improvement on the old and popular World's Clipper. Both Globe and America have the new patented protection shield. The "Keystone" and "Lexington" (Patented Feb. 15, 1887,) have the combination wrench and nut-lock caps, and are pronounced by competent judges **The Strongest Clippers Made.** They are precisely same in construction, except that the anti-frictional Balls are introduced into the cap of the Keystone.

There is no Clipper nearly equal the "Lexington" at the price.

All Instruments Illustrated are designated by a *

IX. CLIPPING AND SINGEING.

HAND HORSE CLIPPERS—STAR BRAND.

EMPIRE. Handles not bolted.....	\$2.75*		FOXHALL. Nickel-plated	\$2.50		BRIGHTON. Polished.....	\$2.00	
QUEEN. Handles bolted.....	3.00*							

"QUEEN" and "EMPIRE" are same construction, except that the handles of the Queen are bolted together.

The "EMPIRE" in its improved form is without rival for simplicity of construction combined with general excellence.




"FOXHALL" and "BRIGHTON" are of the old familiar double-screw pattern.

"FOXHALL" is an established favorite. Superior in quality, handsome in finish. Fly-nuts on all the bolts.

"BRIGHTON" is made of finest steel, has hexagon nuts on bolts, and is finely polished.

We also offer the "DEFIANCE" (\$1.75*), a really superior clipper, at rock-bottom price. Similar in style to Brighton.

TOILET CLIPPERS—STAR BRAND.

WINDSOR.....	\$3.00*		CLIMAX. Reversible	\$4.50*		CROWN. Ball Bearing.....	\$3.00*	
PEERLESS.....	3.50*					LA BELLE. Without Ball Bearings	2.75*	

The "CLIMAX" Clippers, patented Dec. 1, 1885, have the lever-bearing on a line with the guide pins, thus reducing friction and preventing all twisting motion of the top plate.

The "WINDSOR" and "PEERLESS" are established favorites. They are same in general construction, but Peerless is made extra heavy for use of Horsemen.

"CROWN" has our new patented anti-frictional BALL bearings.

"LA BELLE" is same as Crown, but without the ball bearings.

All of our Toilet Clippers are nickel-plated.

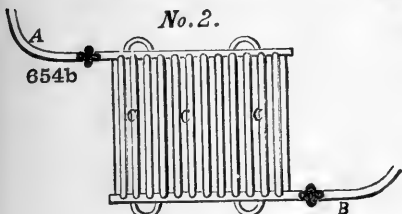
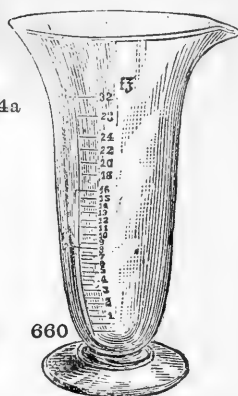
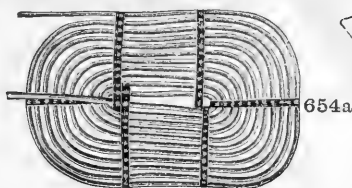
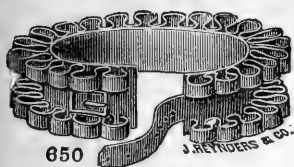
OBSERVE.

Every genuine "Star Brand" Clipper, without exception, is packed in a neat Box bearing the Star Brand Labels.

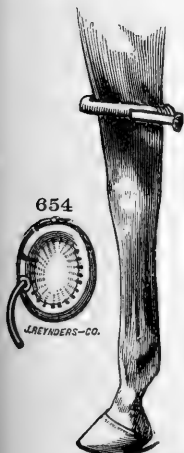
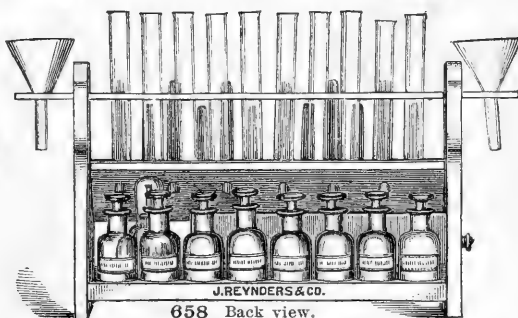
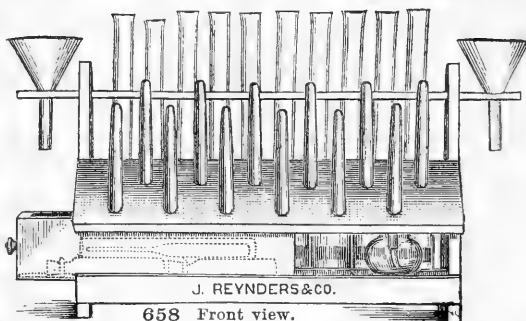
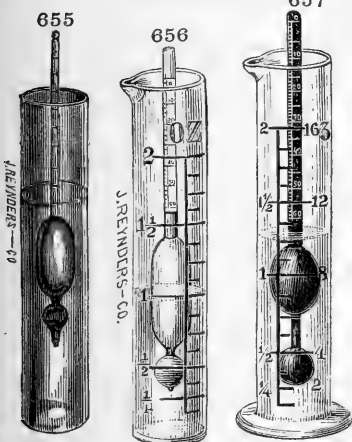
Do not be deceived by imitations.

All Instruments Illustrated are designated by a *

X. SUNDRIES. ARRANGED ALPHABETICALLY.



A. Feed Tube.
B. Discharge Tube.
C. Circulating Tubes.



- 650.* Ankle Guards, soft rubber..... \$1.00
651. Arm Protectors, sleeve-like, soft rubber..... 2.50
652. Arkansas Hones. plain 50 cts.; in wood 0.90
653. Artificial Eyes, see X. Eyes, page 41.
654.* Apparatus, Blackwell's, for the application of jets of cold water to horses' legs (or hot) for fomentations..... 6.66
654a.* Apparatus for similar purpose on other parts of the body, consisting of round soft rubber coil. 15 in. \$3.33; 12 in. 2.77
654b.* Same, square pattern, with directions for use, 10x17 in. \$4.50; 12x12 in. 5.00
654c. Spherical Coil for Head..... 6.50

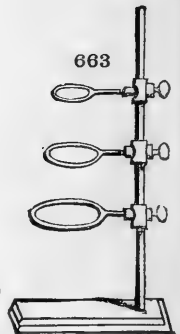
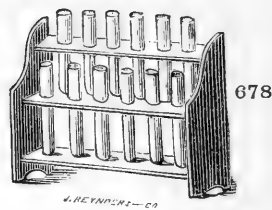
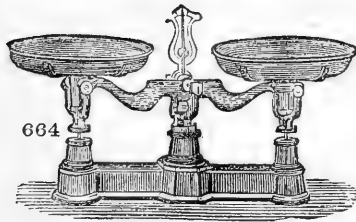
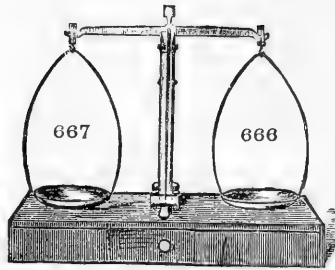
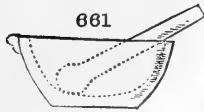
Apparatus for Testing Urine or Dispensing:

- 655.* Urinometer, glass, with plain jar..... 0.60
656.* " " " graduated jar..... 1.50
657.* " " " h. r., with graduated jar..... 4.00
658.** Urine Test Stand, J. R. & Co.'s, holds ten Test Tubes, two Glass Funnels, one Alcohol Lamp, Eight Labeled Glass Stoppered Bottles for Reagents, one Urinometer, Red and Blue Litmus Paper, Filtering Paper, two Watch Crystals, Stirring Rod and Drop Tubes..... 4.44
659.* Alcohol Lamp..... 0.50
660.* Graduates, 60 minims 35 cts.; 120 minims 40 cts.; 1 oz. 30 cts.; 2 oz., 40 cts.; 4 oz. 50 cts.; 6 oz. 60 cts.; 12 oz. 90 cts.; 16 oz. \$1.11.

All Instruments Illustrated are designated by a *

X. SUNDRIES.

APPARATUS FOR DISPENSING.

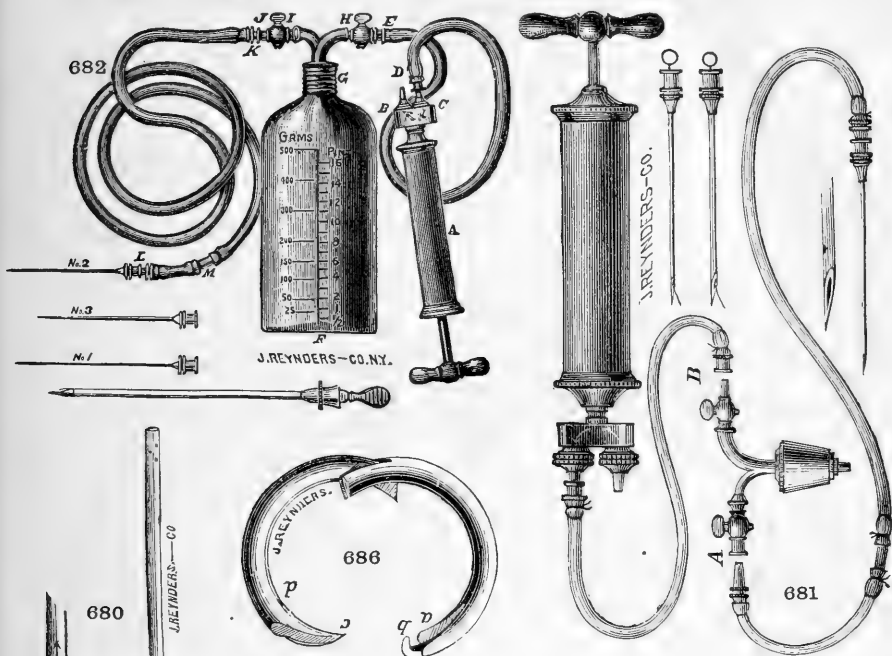


- 661.* Mortars, porcelain, each, 9 in. \$3.00; 8 in. \$2.50; 7½ in. \$2.00;
 5½ in. \$1.00; 3½ in. \$0.65; 3 in. \$0.50
 " glass, 1 oz. \$0.35; 2 oz. \$0.40; 3 oz. \$0.50; 4 oz. \$0.60;
 8 oz. \$0.60; 16 oz. \$0.85; 32 oz. \$1.20
- 662.* Plaster Spatulas, 3 in. \$0.35; 4 in. \$0.40; 5 in. \$0.50; 6 in. \$0.60; 7 in. \$0.65;
 8 in. \$0.85; 9 in. \$1.00
- 663.* Retort Stand 3 rings \$1.00; 4 rings 1.25
- 664.* Scales, Roberwahl 1 lb. \$3.75; 2 lbs. \$4.25; 4 lbs. \$5.00; 8 lbs. 6.00
- 665.* " Prescription, on blackwalnut box, with drop lever, beam 5 in. 4.00*
- 666.* " " on French polished box, with drawer, drop lever, bows and
 removable pan, 7 in. beam, for a charge up to 2 oz.
 and sensible to 1-50 grain 9.00
- 667.* " " Same, chargeable to 5 oz. and sensible to 1-50 grain. 13.00
- 668.* " Hand, with brass beam and horn pans, suspended by silk cords; beams,
 5, 6 and 7 inch resp. \$1.75*; \$2.25*; and 2.50*
 3.00*
- 669.* Medicine Spoon
670. Weights, brass, in polished hard wood block, 4 lbs. to 1-16 oz. \$8.00; 2 lbs. to
 1-16 oz. \$5.00; 1 lb. to 1-16 oz. 3.00
671. " brass, one setting in other, 4 lbs. to ½ oz. \$5.00; 2 lbs. to ½ oz. \$3.50;
 1 lb. to ½ oz. 2.00
672. " grain, brass. 0.15
673. " drachm. 0.50
674. " grain, aluminum, ½ to 5 grains 0.60
675. " " square, ½ to 10 grains. 0.70
676. " 50 grammes to 1 centigramme. 2.00
677. " 100 " to 1 " 2.75
- 678.* Test Tubes, with stand. 1.50
679. " " per doz., 4, 5 or 6 in. 0.50

All Instruments Illustrated are designated by a *

X. SUNDRIES.

- 680.* Aspirator Trocar and Canula, Flint's, with syringe..... \$4.25
 681.* " with combined force and suction pump, fitting to any bottle..... 12.00
 682.* " J. R. & Co.'s screw cap covered graduated bottle, combination pump, needles and trocar..... 15.00

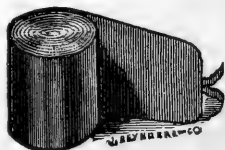
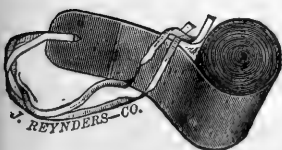


683. Balling Guns, brass..... \$2.22
 684. " " with soft rubber end for protection of soft parts of mouth... 6.66
 Balling Irons, see "Specula Mouth," X., pages 48 and 54.
 685. Bands for Neurotomy..... 1.50
 Blackwell's Apparatus, see Apparatus, Blackwell's.
 Bistouries, caché and others, see "Knives," VI., pages 26 and 27.
 Bog Spavin, see "Trusses," X., pages 52 and 53.
 686.* Bull Ring, self-perforating, hinged and with spring catches, 2, 2½ and 2¾ in. diameter... each 0.80
 687.* Bull Punch, with directions, satisfaction warranted 2.25
 Budding Iron..... 1.25
 Boots, Stuffing, see "Hoof" Instruments, III., page 17.

- 688.* Pure Rubber Bandages, light, with tapes:
 2 in. wide, 3 yds. \$0.75; 4½ yds. \$1.00; 6 yds. \$1.25.
 2½ " " 1.00; " 1.25; " 1.50.
 3 " " 1.25; " 1.50; " 1.75.

689. White Rubber Bandages, heavy, no tapes, 2 in., 3 yds. \$2.50; 6 yds. \$4.50.

690. Bandages, Derby, four \$1.00; * 4 doz. \$10.00.*



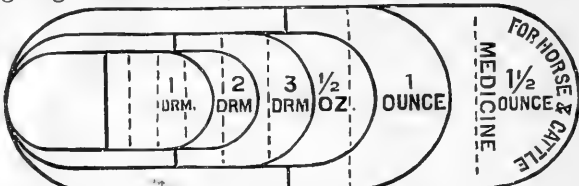
All Instruments Illustrated are designated by a *

X. SUNDRIES.

EMPTY HORSE CAPSULES.

691

For giving Medicines—Liquids or Solids—to Horses or Cattle.

No. 0.....		..1½ ounces.
No. 1.....		..1 "
No. 2.....		..½ "
No. 3.....		..3 drachms.
No. 4.....		..2 "
No. 5.....		..1 "

Nos. 0-2, Boxes of 10 Capsules each; Nos. 3-5, Boxes of 20 Capsules each.

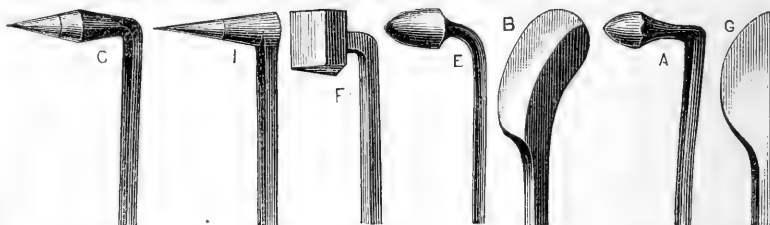


696

No. 0 only.	1 Box.....	\$0.50
	1 doz. Boxes	4.44
	6 " "	22.22
	1 gr. " "	40.00

No. 1 to No. 15.	1 Box.....	\$0.40
	1 doz. Boxes	3.75
	6 " "	20.00
	1 gr. " "	32.00

CAUTERY IRONS.

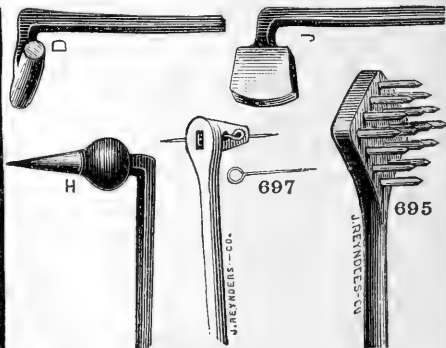
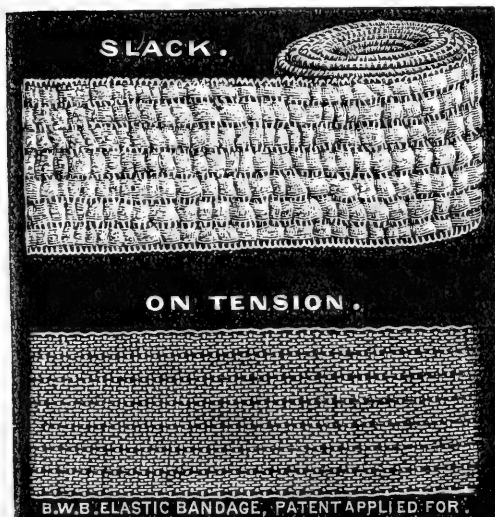


693 - 694

- 692.* Unpolished, ten patterns, A to J, in handles.....each \$0.55
 693.* Same as 692, polished, no handle....." 1.25
 694.* Set Screw Handle to 693....." 1.66
 Illustration 693-694 shows how 693 is secured to 694.
 695.* For Pyropuncture, all iron, in handle....." 3.00
 696.* " " platinum points....." 3.00
 697.* With three changeable iron points....." 3.00
 698.* With platinum point....." 3.33
 699. For Docking (Tail, Iron), see No. 720a, page 41.
 700. Forge for Cautery Irons....." 6.00
 701. Lamp for Cautery Irons, self-blowing....." 6.00



698



- 702.* Bandage, Empire Elastic, unexcelled in Porosity, Elasticity and absorbent qualities. Needs no folding over; entirely self-holding. Any width or length made to order.
 3 yds. long, 2 in. 50 cts.; 2½ in. 60 cts.; 3 in. 75 cts.
 3 yds. long, 2 in. 65 cts.; 2½ in. 75 cts.; 3 in. \$1.00.

All Instruments Illustrated are designated by a *

X. SUNDRIES.

702.* Thermo-Cautery, Pacquelin's, complete, with 2 platinum cauterizers *D* and *E*, in case, \$34.00

It is known that platinum and some other metals possess the property, when slightly heated, of becoming incandescent when brought in contact with a gaseous mixture of air and of certain hydrocarbon vapors, and of continuing in an incandescent state without flame as long as the mixture continues to be supplied. It is upon this property that Dr. Pacquelin has based the construction of his novel and very admirable apparatus.

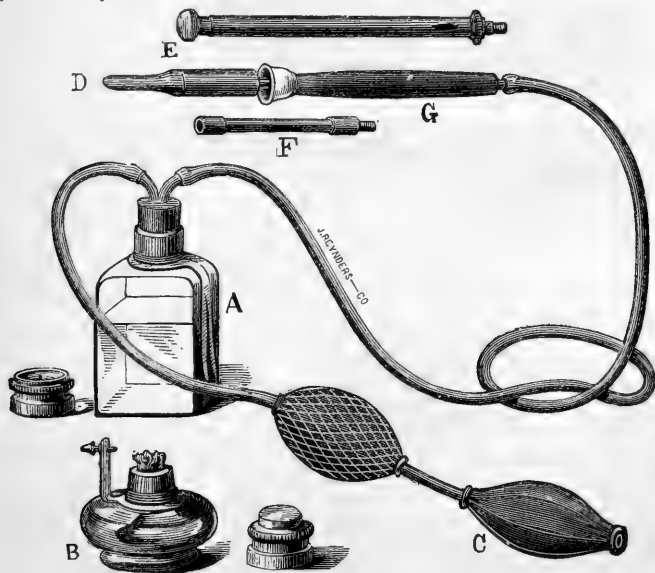
The thermo-cautery consists of three principal parts, namely: The chamber *D* or *E* in which the combustion takes place, the receptacle *A* for the volatile hydrocarbon, and the air blowing contrivance (set of double bulbs) *C*. The combustion chamber (*E* or *D*) is the cautery itself. The latter consists of a platinum shell of small volume and large surface, it is the cautery proper, becoming incandescent and is made of two forms to suit different requirements of application. Two tubes are attached to this, an inner one for leading the vapors into the platinum shell and an outer one for conducting off the products of combustion.

The receptacle *A* consists of a bottle, having fastened to its neck a contrivance for readily attaching the bottle, as is most convenient, to a button hole, button or pocket of the operator's clothing. This bottle is closed by a rubber stopper through which a tube having two outlets passes. Through one of the latter and by means of the set of double bulbs *C* is forced into the bottle: atmospheric air, which passes out through the other outlet mixed with the hydrocarbon and into the cautery *D* or *E*. A handle *G* made of non heat conducting material is attached between the cauteries *D* or *E* and the rubber conducting tubing. *F* is a tube that can be screwed between the cauteries *D* or *E* and the handle *G*, elongating the instrument for operating in cavities.

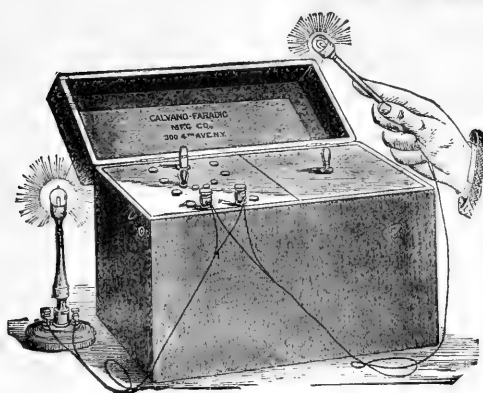
DIRECTIONS FOR USE.

The set of double bulbs *C*, are attached to the blow pipe fastened on to the alcohol lamp *B*, and the end bulb worked briskly whilst the cautery to be used (attached to the handle *G*, and tubing to the receptacle *A*), is held into the white part of the flame until the cautery has become slightly heated. Then remove the cautery from the flame and the set of double bulbs from the blow pipe and attach the latter to the inlet tube of the receptacle. Again work the end bulb briskly until the cautery has become incandescent and then operate. During the operation continue to work the end bulb with the left hand, sufficiently for retaining the cautery at a uniform degree of heat. The cautery when incandescent will remain so, as long as hydrocarbon is supplied by working the bulb.

The thermo-cautery is applicable in all operations where the use of cautery by fire is indicated. Its heat may be maintained indefinitely, and may be varied at the will of the operator, at any degree lower than that of white heat. It may be passed through the organic tissues and liquids, or even through cold water without losing its activity. It is easy of manipulation, perfectly safe in use, compact, portable, and free from the inconveniences of the older methods of cautery by fire. The hydrocarbons which supply it (keroseline or benzine) are everywhere easily obtained.



X. SUNDRIES.



Cautery-Electro Storage Battery for bloodless and rapid operations and puncture, combined with Incandescent Lamp. Pamphlet with full information sent on application.....Price \$20.00-\$75.00

Fig. A, Pea Lamp with holder.....\$2.75*

Fig. B, Surgical Lamp with holder.....3.00*

Dental Lamp with holder, 2.50*

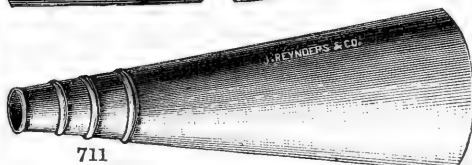
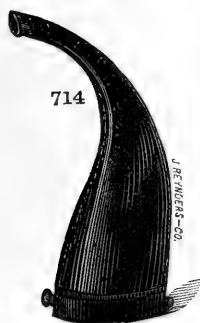
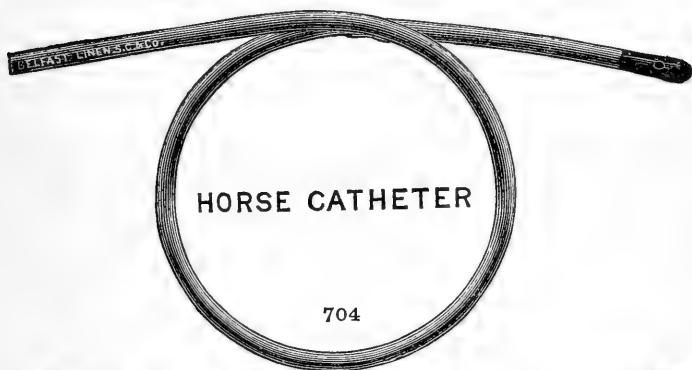
$\frac{1}{2}$ *, 1*, 2*, 3*, 4*, 6* Candle

Lamp with holder, each 2.50*

Handle for Cautery Knife, 4.00*

3 ass. Platinum Knives, each 2.50*

3 ass. Platinum Knives, each 2.00



Caponizing Instruments, see XIII., Poultry Specialties, page 55.

Caustic Holders, see X., Part Caustiques, page 46.

703. Covers of Rubber for Horses:

Without Hood, Drill.....\$5.00*; Sheeting.....\$4.00*
With " ".....6.00*; ".....5.00*

All Instruments Illustrated are designated by a *

X. SUNDRIES.

704.*	Catheter, Elastic, for Horses.....	best \$2.50; good \$1.66; ordinary \$1.11
705.	Same, with Whalebone Stilet.....	best \$4.25; good 3.88
706.	Catheter, Metal, for Horses, with flexible end made of wire wound spirally; in two parts, screwing together, and one Mare part.....	2.77
707.	Catheter for Mares, Elastic.....	1.00
708.	“ “ “ White Metal.....	2.00
	Derby Bandages, see Bandages.	
710.	DRENCHING Frame, Arnold & Son's.....	8.00
711.*	“ “ Bottle, tin, R. & C.....	1.00
712.*	“ “ “ superior japan.....	2.00
713.*	“ “ Horn.....	1.00
714.*	“ “ tin.....	0.80
715.*	“ “ “ J. Reynders & Co.'s.....	1.66

This has been devised with a view to obviate all difficulty in administering fluid medicine to horses and cattle. It consists of two compartments, A and B; B communicating with the metal tube B and A with the soft rubber hose A. The vessel B is to hold the medicated fluid and A lukewarm water, which may be filled in through C. The soft rubber hose A is introduced into one of the nostrils and the metal tube B into the mouth; the horn is then to be tilted upwards, when the water will enter the nostril, force the animal to swallow and take the medicine without difficulty.

716.*	Drainage Tubing, per yard.....	0.50
	Directors, see X. Pocket Case, Sundries, page 45.	
717.*	Double Canula.....	3.00
	Dissecting Cases, see Enumeration of Contents of Cases XI., page 56.	
718.*	Docking Shears.....	9.00
719.*	“ “ or Tail Shears.....	6.66
720.*	“ “ “ handle similar to 719, but shanks longer and handle shorter.....	6.66
720a.*	“ “ Firing Iron.....	2.50

Elastic Catheters, see Catheters, top of this page.

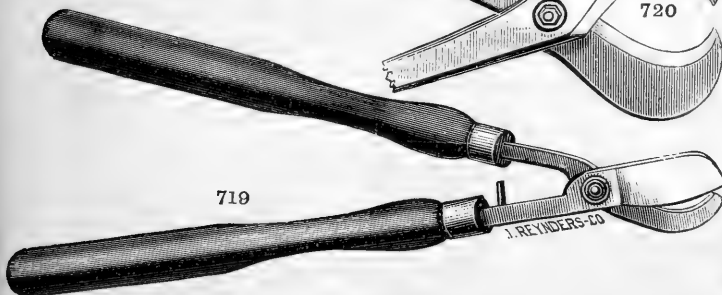
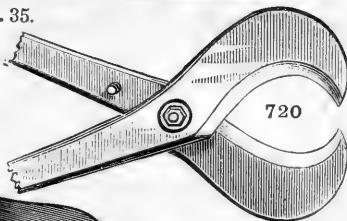


- 721.* Eyes, Artificial, glass, $1\frac{9}{16}$, $1\frac{1}{4}$, 2 in. diameter.....each \$4.00
- 722.* Eyes, Artificial, h. r., $1\frac{9}{16}$, $1\frac{1}{4}$, 2 in. diameter.....each 3.33
- Eyes, Specula, see “Specula” X., page 48.
- Exploring Needle, see “Needles” IV., page 19.
- “ Trocar, see “Trocars” X., page 51.

- 723.* Ear Markers, 4 patterns, each \$3.00; per set \$ } Illustrations,
- 724.* “ “ “ 2.50; “ “ “ } see page 42.
- Elevator and Spatula.....\$0.75
- Files, see Dental Instruments I., page 6.
- Firing Irons, see “Cautery Test Irons” X., page 38.

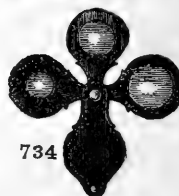
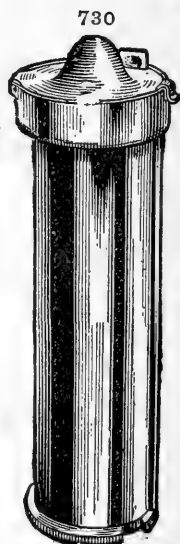
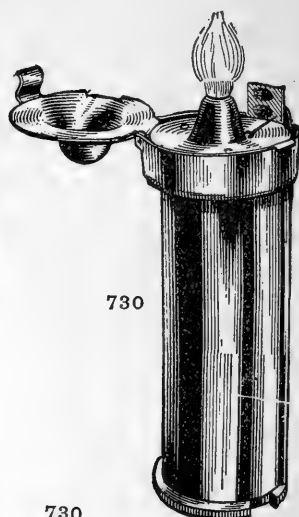
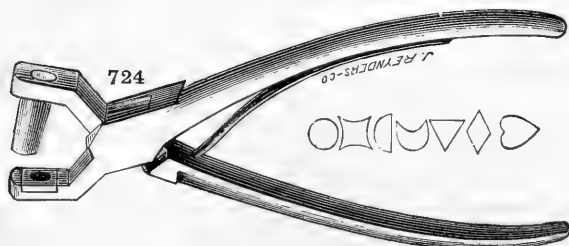
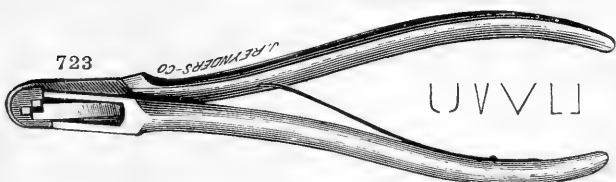
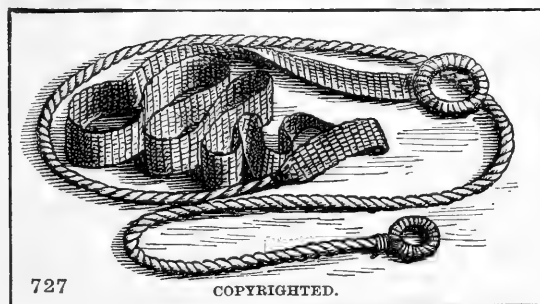
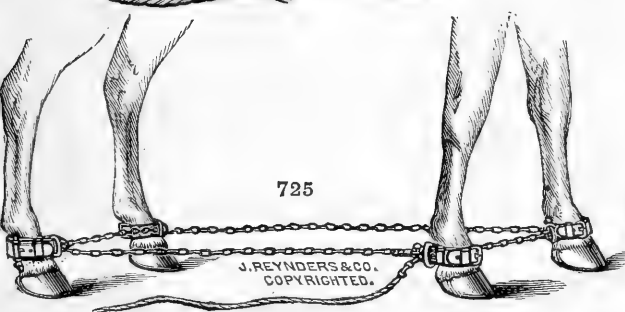


- Floats, see Dental Instruments I, p. 35.
- Glassware, see Urine Test X.
- Herniatome, see Knives or Bistoury Caché VI, page 27.

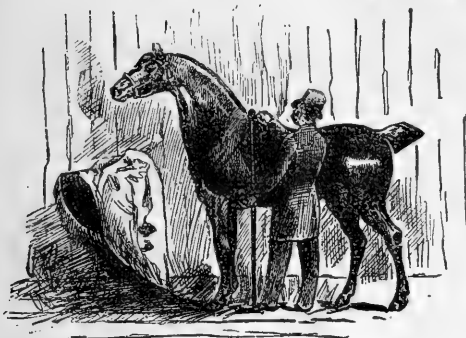


All Instruments Illustrated are designated by a *

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X. SUNDRIES.



- | | | |
|-------|---|--------|
| 748. | Measuring Standards for Horses, etc., Sliding Indicator with water level..... | \$5.00 |
| 749.* | Same, Walking Cane, style No. 1, plain Bamboo..... | 4.50 |
| | “ “ “ “ “ “ 2, stained brass, studded head..... | 5.00 |
| | “ “ “ “ “ “ 5, same as No. 2, buckhorn handle..... | 7.50 |
| | “ “ “ “ “ “ 8, buckhorn handle, silver mountings..... | 8.00 |
| | “ “ “ “ “ “ 9, finest..... | 9.00 |
| 750.* | Measuring Tape, patent spring, plastic case..... 3 ft. \$0.40; 5 ft. \$0.45; 6 ft. 0.50 | |
| 751.* | Same, nickel plated cases..... 3 ft. 0.70; 5 ft. 0.80; 6 ft. 0.90 | |
| | 8 ft. 1.00; 12 ft. 1.25; 15 ft. 1.50 | |

MILKING TUBES.*



- | | | | |
|-------|---|-----------------------|--------|
| 752.* | Regular Silver Set of four..... | \$2.00;* each | \$0.50 |
| 753.* | “ Plated “ “..... | 1.20;* “ | 0.30 |
| 754.* | Silver..... 2½ in. \$0.65; 2¾ in. \$0.80; 3¼ in. \$0.95; 3½ in. \$1.10; 4¼ in. 1.25 | | |
| 755.* | Self-retaining..... | silver \$0.70; plated | 0.45 |



- | | |
|---|---------|
| 756.* Teat Slitters | *\$2.00 |
| " " other and better ones, see VI. Knives, pages 26 and 27. | |
| 757.* Lead Probe, to be inserted after slitting teat and worn permanently until healing | *0.25 |



- | | |
|---|--------|
| .757a.* Grooved Instrument for Opening Obstructed (Cow's) Teats | \$0.85 |
|---|--------|

Nose Specula, see Specula X., page 48.

"Punch, see Bull Punch X., page 43.

Neurotomy Bands	\$1.25
-----------------------	--------

Knives, etc., see page 27,—Sets page 54.

- | | | |
|-------|---|------|
| 758.* | Ophthalmoscope, Liebreich's, $\frac{3}{4}$ in. mirror | 3.00 |
|-------|---|------|

- | | | | |
|-------|---|---------------|------|
| 759.* | " | Loring's..... | 7.50 |
|-------|---|---------------|------|

- | | | | |
|------|---|---------------------------------|------|
| 760. | " | Liautard's, in pocket case..... | 2.50 |
|------|---|---------------------------------|------|

- | | | | |
|-------|---|-------------------|------|
| 761.* | " | Plain, 3 in | 3.00 |
|-------|---|-------------------|------|

Paquelin's Cautery, see page 39.

- | | | |
|-------|--------------------------------|------|
| 762.* | Pessary for Mares or Cows..... | 5.00 |
|-------|--------------------------------|------|

Pocket Cases, filled, see pages 54, 59, 60 and 61.

- | | | | |
|------|--------------------------|-----------------------------|------|
| 763. | Pocket Cases, empty..... | two fold \$2.50; three fold | 3.00 |
|------|--------------------------|-----------------------------|------|

- | | | | | | |
|------|---|---|---|--------------------------------|------|
| 764. | " | " | " | French, large, three fold..... | 8.50 |
|------|---|---|---|--------------------------------|------|

Pocket Case Sundries:

- | | |
|-------------------------------------|--------|
| 765.* Director with Tongue Tie..... | \$0.75 |
|-------------------------------------|--------|

- | | | |
|------|-----------------|------|
| 766. | " " Scoop | 0.75 |
|------|-----------------|------|

- | | | | | |
|------|---|---|----------------------|------|
| 767. | “ | “ | Aneurism Needle..... | 0.75 |
|------|---|---|----------------------|------|

- | | | | | |
|-------|---|---|---------------------|------|
| 768.* | “ | “ | “Myrtle Leaf” | 0.75 |
|-------|---|---|---------------------|------|

- | | | |
|------|----------------------------|------|
| 769. | Spatula with Elevator..... | 0.75 |
|------|----------------------------|------|

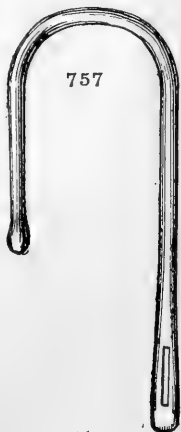
- | | | | | |
|------|---|---|-------------|------|
| 770. | " | " | Scoop | 0.75 |
|------|---|---|-------------|------|

- | | | | | |
|------|---|---|-----------------|------|
| 771. | " | " | Tongue Tie..... | 0.75 |
|------|---|---|-----------------|------|

- | | | |
|------|---|------|
| 772. | Port Mèche, for shoving lint into wounds..... | 0.60 |
|------|---|------|

- Pocket Magnifying Lenses, see "Lenses," page 43.

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773.* Probangs, to unscrew into two parts.....cane \$4.44; whalebone \$10.00



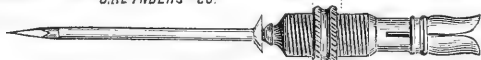
- 774.* Probangs, leather covered, with stilet.....\$6.00; fine 12.00
 775. " " same, separating into two parts..... 13.33
 776. Protector, Rubber, for arm..... 2.22
 777. Probes, 14 in., plated, in two parts, screwing together..... 1.00
 778.* " 14 in., silver, " " " "..... 1.50
 779. " 5 in., per pair.....silver \$0.70; plated 0.50
 780.* " 9 in., pure silver, pliable..... 1.00
 781. " 10 in., whalebone, elastic..... 0.60
 782.* " Sheele's, silver, rubber covered..... 2.00
 783.* " "Myrtle Leaf"..... 0.65

Probes illustrated on page 44.

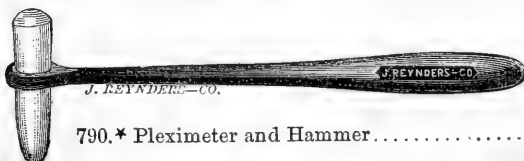
784. *Porte-Cautique*, all h. r.....2½ in. \$0.40; 5 in. \$0.60; 6¾ in. 0.70
 785.* " " h. r. case, burner.....silver \$1.00; platinum 2.22
 786.* " " silver.....3 in. \$1.20; 4 in. 1.66
 787.* " " aluminum and platinum..... 3.50



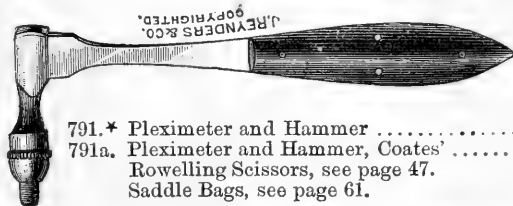
- 788.* *Porte-Cautique*, with exploring needle..... \$3.33



- 789.* *Porte-Cautique*, with trocar..... 4.50



- 790.* Pleximeter and Hammer..... \$1.25



- 791.* Pleximeter and Hammer.....\$2.00

- 791a. Pleximeter and Hammer, Coates'.....\$3.00

Rowelling Scissors, see page 47.

Saddle Bags, see page 61.

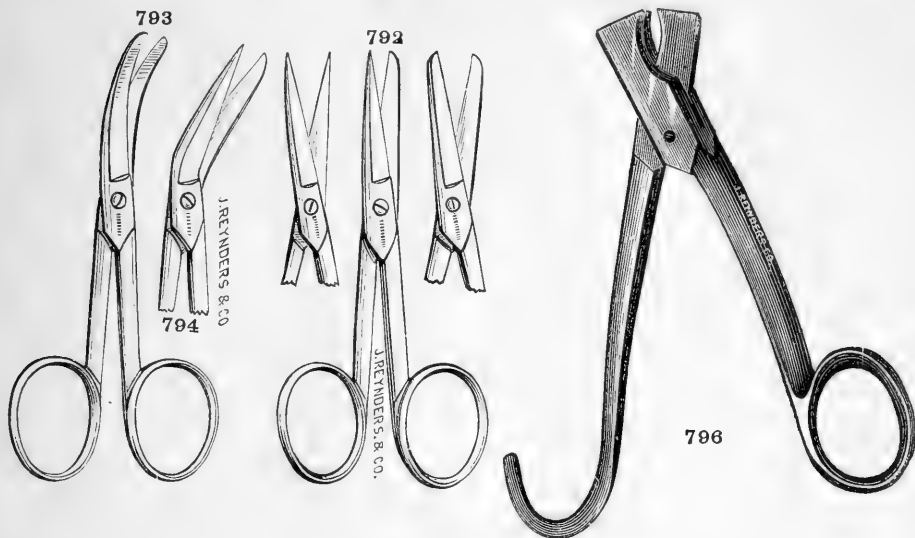


J. REYNDERS & CO

- 791b.* Saw, Bone.....\$4.25
 " see also page 10.

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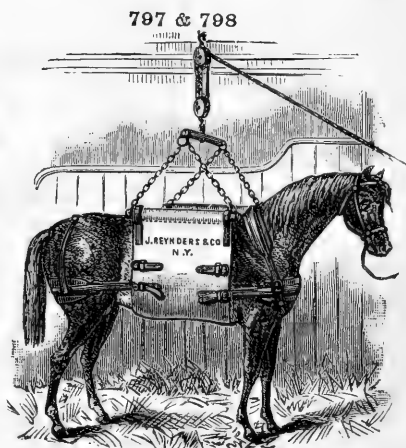
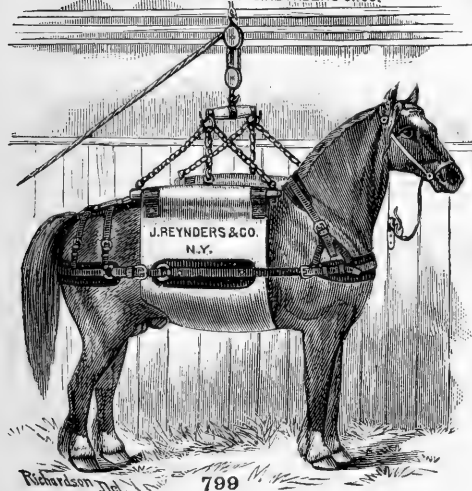
792.*	Scissors, straight	5 in.	\$0.85;	6½ in.	\$1.00
793.*	" curved or flat	5 in.	1.11;	6½ in.	1.66
794.*	" " angular	5 in.	1.11		
795.	" Rowelling, plain				1.66
796.*	" " improved				3.00

Side Line, see Hobbles, pages 42 and 43.

Silk, see Silk IV., page 21.

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J. R. & Co's Superior Slings.

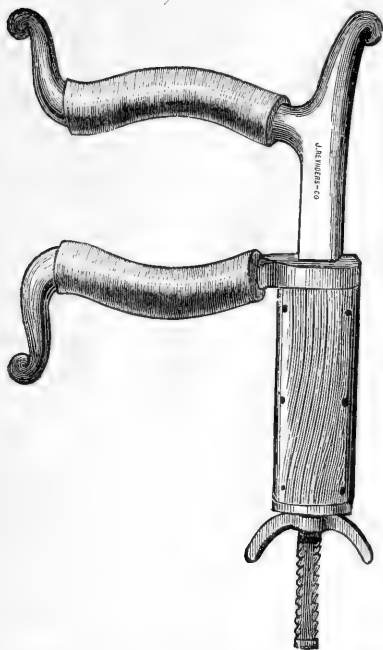


797.*	Suspending Slings, without staple, pulleys and rope, for small horses only	\$20.00
798.*	Same for small and medium horses	22.22
799.	" " Normans, Percherons, Clydesdales, etc.	36.66
800.	Screw Staple, Pulleys and Rope for either of above	7.25

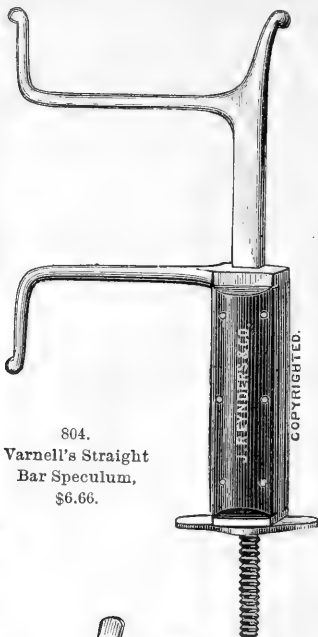
All Instruments Illustrated are designated by a *

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SPECULA.

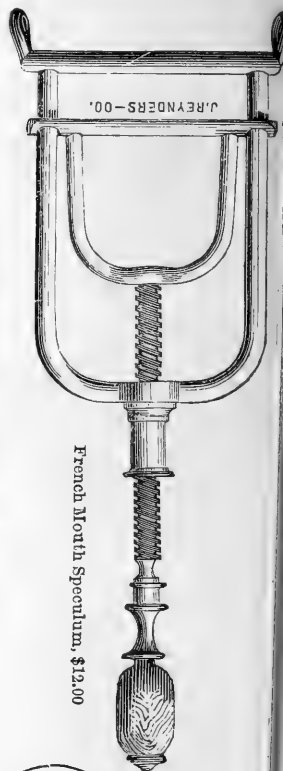
801. Eye, plain.....\$1.11 | 802. Eye, Moore's.....\$1.66



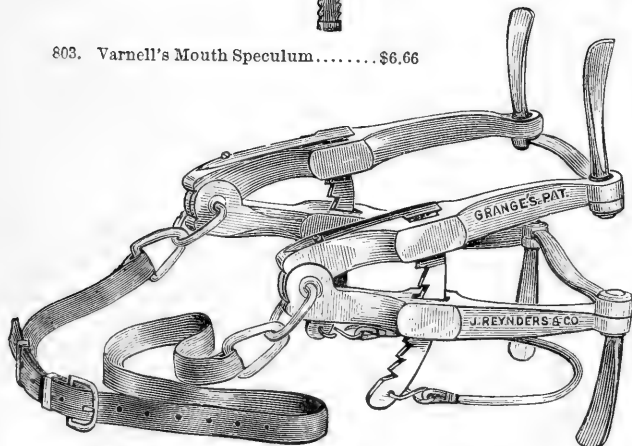
804.
Varnell's Straight
Bar Speculum,
\$6.66.



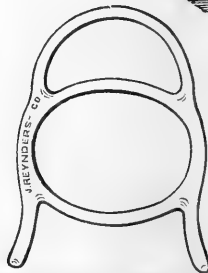
803. Varnell's Mouth Speculum.....\$6.66



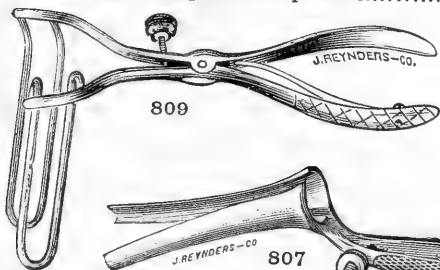
French Mouth Speculum, \$12.00



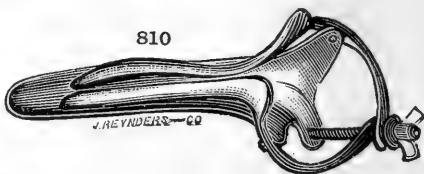
805. Grange's Mouth Speculum.....\$19.00



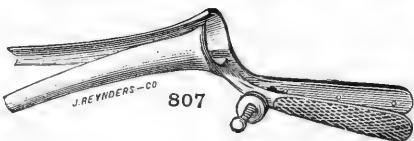
802. Mouth, plain, japan'd \$0.80
nickel'd 1.50



809



810



807

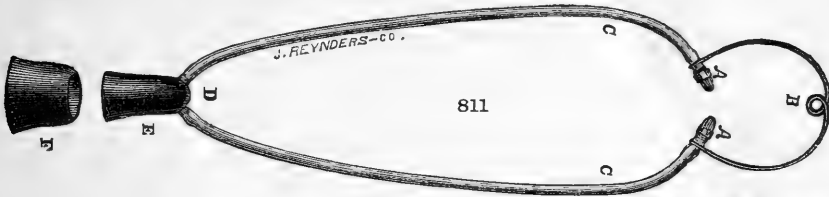
806. Specula, Mouth, Simon's\$24.00*
807.* " Nose, with long handles.. 1.50
808. " " " short " .. 4.00
809.* " " steel, long bladed.. 5.00
810.* " Vaginal, 19 inches, L. E. Wheat's 21.00

See also page 54.

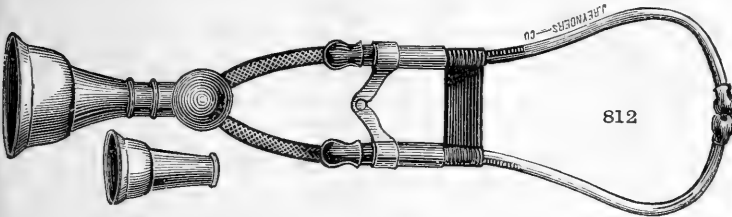
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Stallion Truss, see Trusses, page 52.
Shears, Docking, see Docking Shears, page 41.
Spavin Truss, see Trusses, page 51.
Standards, see Measuring Standards, page 45.



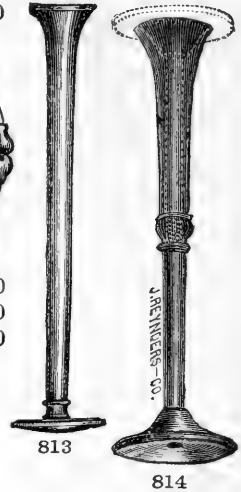
811.* Stethoscope, J. R. & Co.'s.....\$2.50



812.* Stethoscope, Camman's, with elastic or metal spring.....\$2.50

813.* " h. r., plain..... 1.00

814.* " " to unscrew..... 1.50



815. Stomach Tube, elastic\$5.55

816. Suppositories, hollow.....per dozen 1.00

Hollow suppositories are being welcomed as a great boon to man's most faithful and patient servant—the horse. Most of the diseases from which he suffers are soonest relieved by rectal medication. It only requires a minute to fill a No. 6 hollow suppository and insert it; and the life of the animal often depends on prompt action. Not only should every veterinary surgeon keep a supply of these hollow suppositories on hand ready for immediate use, but every person owning a horse should do so. The sickness to which the horse is most liable is colic. One of these suppositories filled with wet tobacco and inserted will generally cure the sufferer in a few minutes. The same treatment will destroy "pin worms" in horses.

Thermometers, self-registering, in h. r. cases :



817. With contraction near the bulb.....good \$1.66; ordinary \$0.85



818. With "Indestructible" Register.....\$1.66

819. Same, Bulb colored 2.00

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Directions for using our Fever-Thermometer with Indestructible Register.

1st. Shake down the column of mercury in the tube.

This is done by holding the instrument firmly in the hand and swinging the arm downward, which causes the column to move downward.

2d. The whole column of mercury rises and remains in the tube as an index.

3d. The top of the mercury is the correct indication of temperature.

Should the column of mercury become divided into several pieces, they can be brought together by swinging the Thermometer as described above. Never subject it to a sudden jar by striking the hand holding it on a table, desk or any other solid article, as it is liable to fracture the walls of the tube and render the instrument useless.

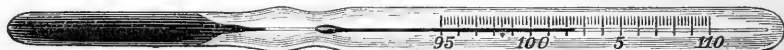
These Thermometers are guaranteed to be accurate and register absolutely indestructible.



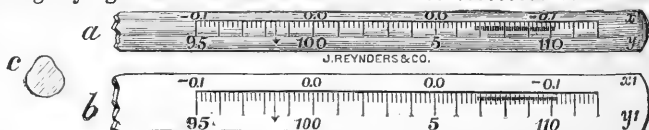
820. With spiral twist near bulb.....\$2.50



821. Hicks' Magnifying Index..... *2.50



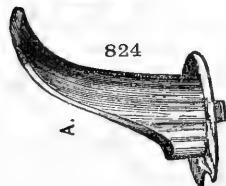
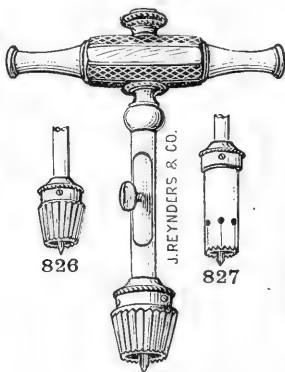
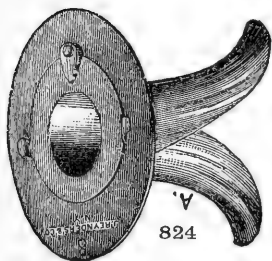
822. Hicks' Magnifying and "Indestructible" Index..... *3.00



823. Hicks', with Kew corrections engraved on thermometer; ordinary self-registering *3.00
"Indestructible" register *3.50

Metal or Morocco case with Thermometer 25 and 50 cents more respectively.

Kew or Yale certificate 50 cents in addition except in case of No. 823.

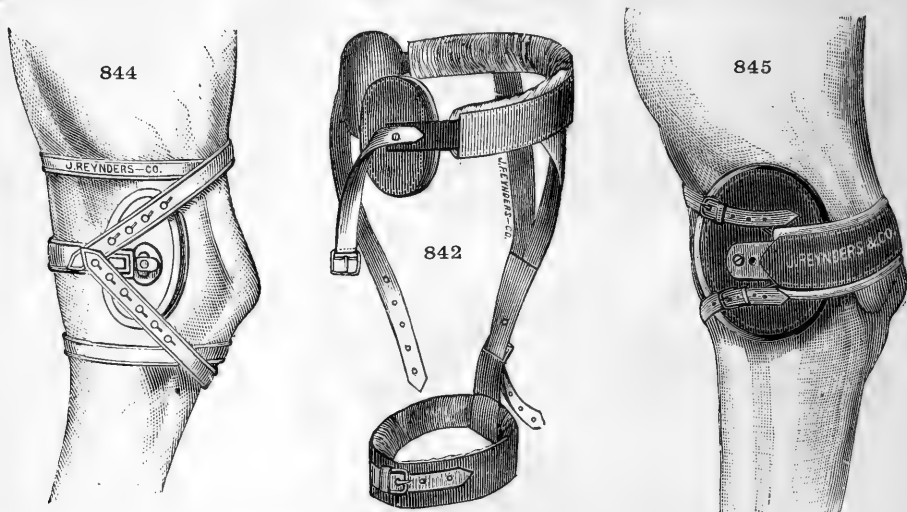


- 824.* Tracheotomy Tubes, plain, metal or h. r \$3.00
825.* " " metal, n. p., self-retaining..... 4.44
Part A, which is shown separately, is removable to enable introduction.
See page 53 for New Tracheotomy Tube.
826. Trephine, conic, regular and small.....each 3.33
827. " cylindric..... 3.33
828. " " with sliding guard\$10.00
829. Screw for either of above 1.66

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and bathe the parts, gradually increasing the intervals between removal and readjustment until it can be worn with comfort. The latter is of great importance, as when the part is once permitted to become chafed, there is an uneasiness always manifested by the animal afterwards.



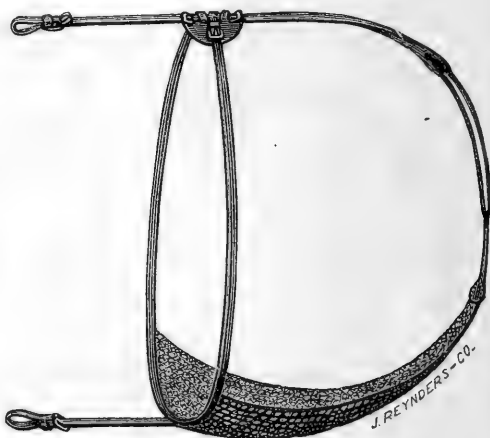
844.* *Truss for Thoroughpin*, Fleming's. This truss supercedes firing, blistering and the necessity of turning out, as the animal may be kept at gentle work. . \$9.00

Directions for application: Place the pads on each bursal enlargement, the pad with the studs in it on the outside of the limb; pass one strap around above the hock, and fasten onto the stud in the pad outside, and the other strap below the hock in like manner. When first commencing treatment care should be observed not to allow the truss being worn longer than two or three hours, gradually increasing continuous application from day to day. . \$9.00

845.* *Truss for Thoroughpin*, improved, with six holes for adjustment. \$9.00



846. Truss for Stallion, \$6.00.*



847. Same, improved, \$8.00.*

For preventing injury while trotting.

All Instruments Illustrated are designated by a *

X. SUNDRIES.



848.★ *Wallet*, soft sides, stiff bottom, with or without loops for bottles 14 in. \$3.50; 16 in. \$3.75; 18 in. \$6.00; 4 bottles extra.....\$0.50*

849.★ *Wallet*, New Patent,* 10 in. \$4.50; 12 in. \$5.50; 14 in. \$7.00; 16 in. \$8.00; 18 in..... 8.50

850.★ *New Tracheotomy Tube*, with three assorted insertable upper blades. The indication is frequently apparent that a Tracheotomy Tube should fit snugly. With such an end in view we have devised this tube, which has upper blades of different sizes, as indicated by the drawing..... 8.00

851. *Tracheotomy Tube for permanent use. Made to order only.* 6.00

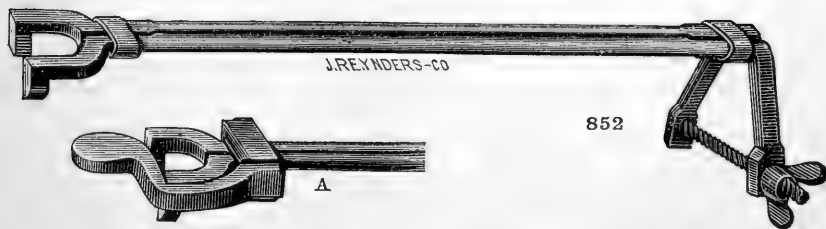
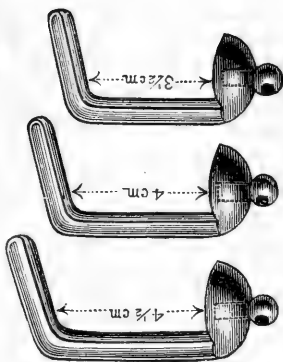


852.★ *New Universal Molar Forceps*.

It is claimed that with these forceps any Molar, irrespective of width or irregularity of crown, can be extracted without excessive exertion of power. Movement of the handles at the set screw end, towards or from each other, will cause the shanks to revolve side by side and the jaws can be made to close upon the tooth by a parallel approach, the same holding so tightly that all attention may be devoted towards uplifting or extracting the tooth. This instrument is available where there is but a minimum of operating space.

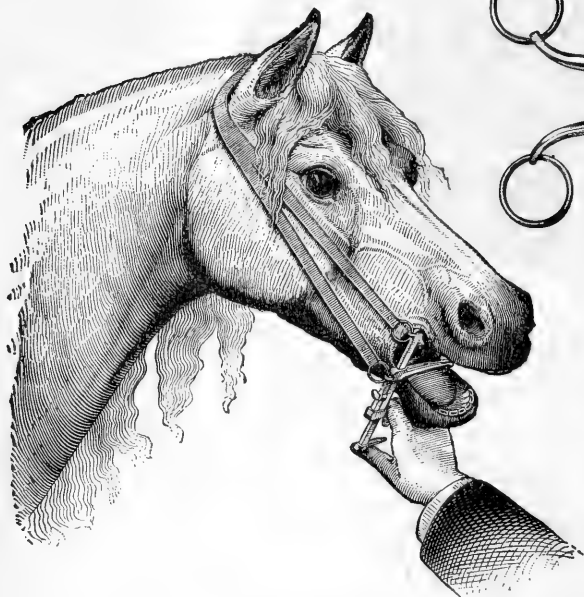
Illustration A shows an attachment to these forceps which may be slid on at will. It serves as rests upon the teeth immediately adjoining the one to be extracted for the purpose of exerting leverage in the extraction of a tooth. It may be put on so as to serve for either side.

Price and further description upon application.



All Instruments Illustrated are designated by a ★

SUNDRIES—APPENDIX.
Green's Mouth Speculum.



Recommended as about the best in use.

No. 1 With Bridle\$6.00*; No. 2 Same, Lighter.....\$5.00*

See also page 48.

Instruments and Apparatus used in the Operation for Roaring.

1. Hobbles, see page 43.....	20.00
2. Side Line, see page 43.....	
3. Twitch.....	
4. Carlisle's Chloroform Bag.....	13.33
5. H. R. Syringe—one quart.....	4.00
6. Convex Edged Scalpel.....	0.85
7. Bulldog Forceps.....	1.25
8. Trachea Tampon Canula consists of a long trachea tube with arm, India rubber bag surrounding its middle; this bag is inflated by a double bulb after the tube has been inserted in the trachea, and is useful in preventing blood flowing into the bronchi during the horse's getting up after the operation.	
9. Razor Shaped Scalpel, for excising the arytaenoid cartilage, blade 3½ in., handle 8 in.....	4.00
10. Bent Knife for removing the muscles from the outside of the arytaenoid cartilage, length 3 in., blade handle 4 in.....	3.33
11. Hook for seizing and raising the lower end of the arytaenoid cartilage, length 3½ in., hook handle 7 in.....	1.66
12. Toothed End Forceps, to seize the body of the arytaenoid cartilage, catch at handle to fix the blades and rings for the fingers, length 8 in.....	3.33
13. Curved Scissors to cut through the mucous membrane, length 8½ in.....	3.33
14. 1 pair Retractors to keep trachea open during operation, length of handle 6 to 8 in., bent portion 2 in.....	3.33
15. Electric Lamp, to illuminate the interior of the larynx, with Reflector, see page 40.	
16. Wire Spreader.....	1.50
17. Seizing Forceps.....	3.33
18. Field Tourniquet.....	1.00
19. Aveling's Transfusion Apparatus.....	4.00

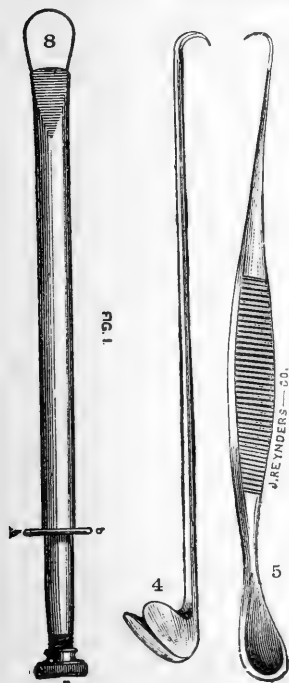
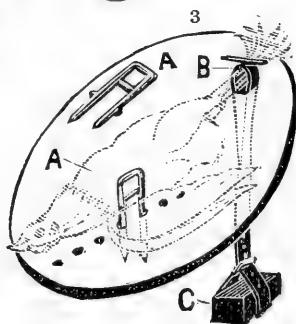
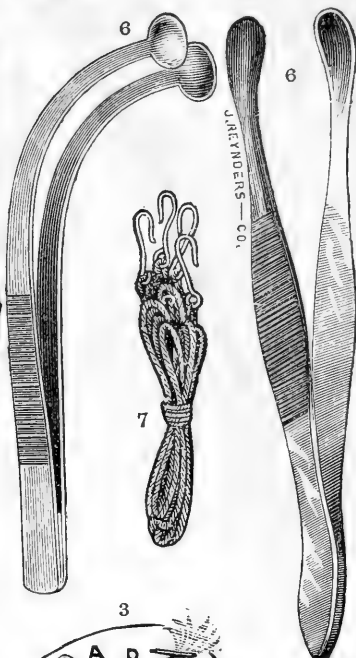
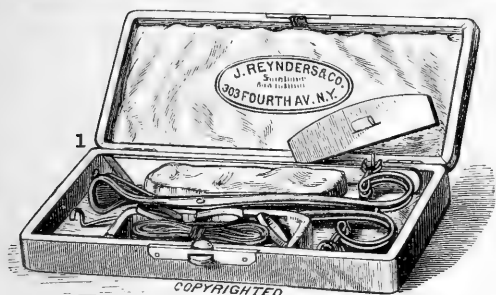
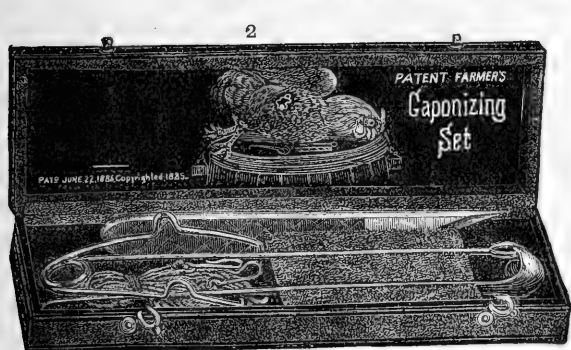
Coate's Neurotomy Set.

1 each R. & L. Neurotomy Knife, 2 assorted sizes Scalpels, 1 Neurotomy Band, 1 curved Scissor, 1 Artery Forcep, 1 Thumb Forcep, 1 Neurotomy Hook, Needles and Silk, in a neat morocco covered case...Price \$13.33

Coate's Compact Pocket Case.

CONTENTS: 1 Reverdin's Needle, h. r. handle, slide catch; 1 Artery Forcep, scissor handle; 1 Scalpel; 1 Bistoury, straight, sharp pointed, h. r. handle, slide catch; 1 curved sharp pointed Bistoury, h. r. handle, slide catch; 1 Dog Seaton Needle, h. r. handle, slide catch; 1 pair curved Scissors; 1 grooved Director, with Neurotomy Needle; 2 Probes; 1 Thumb Forcep; 1 h. r. Caustic Holder, platina burner; 1 Trocar, Needles and Silk, in a 1 fold morocco case.....Price \$22.22

XI. CAPONIZING INSTRUMENTS.



1. Farmer Miles' Caponizing Set consists of knife for making incision, spreader forceps for holding open side, sharp hook for catching skin, loop forceps for catching and removing. Cords with hook are for holding the bird. This set of instruments is vastly superior to anything else for the purpose, and no one should begrudge its cost. The same, with instructions by Farmer Miles, in fine velvet lined case, sent by mail on receipt of price. \$5.25*
2. Caponizing set, inferior to No. 1, having the only advantage of lesser cost over the same, consists of steel knife and forceps, spreader, German silver cutting and twisting scoop, with hook on opposite end, fine German silver probe, hooks with cord for securing bird, in fine velvet lined case, with 25-cent hook "Practical Caponizing and How to Make Poultry Pay," sent by mail on receipt of price. \$3.00*
3. Staples for securing bird. each 0.10*
4. Patent Caponizing Scoop and Hook. 1.50*
5. Chinese Caponizing Spoon and Hook. 1.00*
6. Caponizing Spoon Forceps, straight or curved, each 1.00*
7. Four Hooks and Cords. 0.25*
8. Steel Wire Caponizing Canula. 2.00*

We would use no other but Farmer Miles' Set for Caponizing.

All Instruments Illustrated are designated by a *

Enumeration and Contents of Cases.

In the following pages we enumerate and describe cases, etc., as kept in stock by us; we will make to order any style, containing any combination of instruments desired.

DISSECTING CASES.

DISSECTING CASE No. 2, contains: 2 ass. scalpels, 1 tenaculum, 1 cartilage knife, 1 dissecting forceps, 1 scissors, 1 set of hooks on chain; in a mahogany case.

Price, ebony handled instruments, \$4 00; ivory handled instruments . . . \$4 50

DISSECTING CASE No. 3, contains: 4 ass. scalpels, 1 tenaculum, 1 cartilage knife, 1 dissecting forceps, 1 scissors, 1 blowpipe, 1 set of hooks on chain; in mahogany case.

Price, with ebony handled instruments, \$5 50; ivory handled instruments, \$6 25

DISSECTING CASE No. 4, Charrière's, contains: 4 scalpels, 1 tenaculum, 1 cartilage knife, 1 scissors, 1 dissecting forceps, 1 blowpipe, 1 set of hooks on chain; in a zinc case, black oil cloth covered.

Price instruments ebony handles, \$7 50; ivory, \$8 50

POST MORTEM CASES.

POST MORTEM CASE No. 1, contains: saw, chisel and stilet fitting into one handle 1 cartilage knife, all steel; 1 cartilage knife, extra heavy; 3 ass. scalpels 1 tenaculum, 1 dissecting forceps, plain; 1 dissecting forceps, extra long; 1 enterotome, 1 costatome, 1 straight scissors, 1 steel mallet, 1 rachitome 1 blow pipe, 1 set of hooks on chain, 1 brain knife, needles and linen thread; in a mahogany velvet lined case. See Cut next page.

Price \$35 00

POST MORTEM CASE No. 2, contains: 1 Finnell's saw and knife, fitting into one handle; 1 cartilage knife, all steel, 3 ass. scalpels, 1 tenaculum, 1 chisel, plain; 1 rachitome, 1 steel mallet, 1 enterotome, 1 scissors, 1 plain dissecting forceps, 1 blow-pipe, 1 set of hooks on chain, needles and linen thread; in a rosewood case.

Price \$21 50

POST MORTEM CASE No. 3, Finnell's, contains: 1 Finnell's saw and knife, fitting into one handle; 3 ass. scalpels, 1 tenaculum, 1 plain dissecting forceps, 1 scissors, 1 chisel, 1 blow pipe, 1 set of hooks on chain, needles and thread; in a mahogany case.

Price, ebony handled instruments \$8 25; ivory handled instruments. . \$10 83

POST MORTEM CASE No. 4, English model, contains: 1 saw, with movable back; 1 chisel, 1 scalpel, extra large and heavy, and 1 knife, extra long, fitting into one handle, with spring catch; 1 blow-pipe, 1 scissors, straight; 1 scissors curved on flat; 1 dissecting forceps, 1 set hooks on chain, 1 tenaculum, 1 cartilage knife, with steel handle; 4 scalpels of assorted sizes. In a mahogany case, polished inside.

Price \$21 00



MEDICINE CHESTS.

Our Medicine Chests are made of the best Russet Leather, and are acknowledged to be the neatest, most durable and best Medicine Chests in the market.

SEAMLESS EDGE

MEDICINE CHESTS,

PATENTED

July 12th, 1881. March 27th, 1883.

They have Nickel-plated Locks and Trimmings.

They contain our improved Glass Mushroom Stopper Bottles.

The following contain Glass Stoppered Bottles in Mahogany Trays, also a Mortar, a Graduated Measure, Four Jars, a Tray for Scales and a space for Instruments under Bottles.

101	contains	4	4-oz.,	18	2-oz.,	20	1-oz.,	8	½-oz.—50	bottles; price	\$19.50,	15½	in. long,	9½	in. wide,	9½	in. high
102	"	4	"	16	"	18	"	6	"	44	"	18.00,	14½	"	8	"	9½
103	"	"	"	16	"	"	"	18	"	34	"	14.50,	11½	"	8	"	8½
104	(see cut)	2	"	16	"	19	"	"	"	37	"	16.00,	12¾	"	8½	"	9½
105	contains	2	"	14	"	16	"	"	"	32	"	14.50,	11	"	8½	"	9½
106	"	2	"	12	"	13	"	"	"	27	"	13.50,	9¾	"	8½	"	9½
107	"	"	"	"	"	28	"	"	"	28	"	12.00,	11	"	7¾	"	8½

The following without Mortar, Measures or Jars.

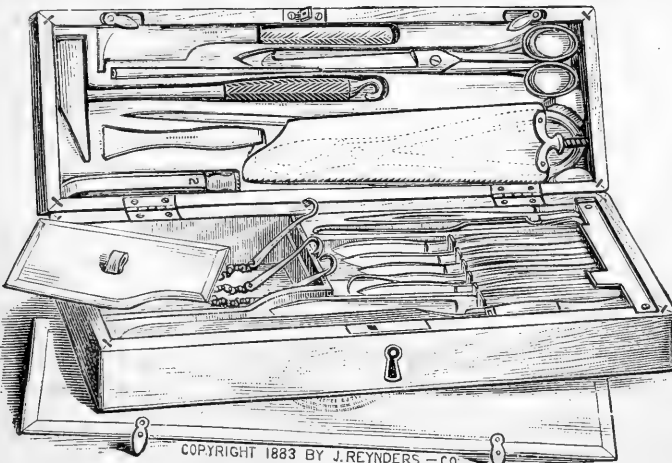
108	contains	4	4-oz.,	10	2-oz.,	6	1-oz.—20	bottles; price	\$10.50,	9½	in. long,	7½	in. wide,	8½	in. high
109	"	15	1½-oz.,	"	"	"	"	"	8.50,	8½	"	5¾	"	7¾	"

The following with a Tray in Front of the Bottles.

110	contains	4	4-oz.,	9	2-oz.,	12	1-oz.,	6	½-oz.—31	bottles; price	\$13.00,	13	in. long,	9	in. wide,	5¾	in. high
111	"	5	"	7	"	6	"	"	18	"	10.00,	11	"	7¾	"	5¾	"
112	"	"	"	10	"	4	"	"	14	"	8.50,	9	"	6½	"	5¾	"

All of the above with Locks. The following with a Strap and Buckle.

113	contains	2	4-oz.,	6	2-oz.,	} Space in front.		price	\$5.25,	7	in. long,	5¾	in. wide,	5	in. high
114	"	5	1½-oz.,	4	1-oz.,			"	4.75,	7	"	4¾	"	4¾	"

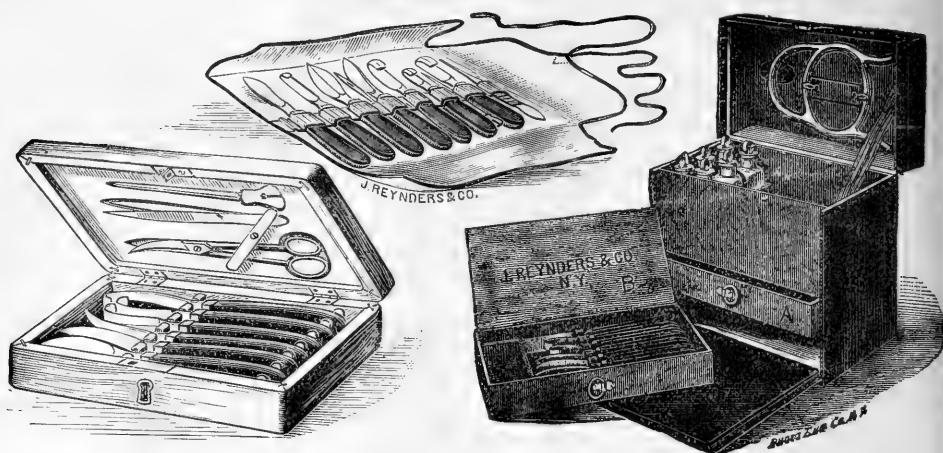


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Post-mortem Case No. 1.

All Instruments Illustrated are designated by a *

HOOF CASES.



HOOF CASE No. 2 contains: 3 assorted double edged hoof knives, 1 single edged searching knife, 1 sage knife, double edged; 1 sage knife, right; 1 sage knife, left; 1 dressing forceps, 1 grooved director, 1 probe; in wrapper case \$10 50

HOOF CASE No. 2, Prof. Liautard's, contains: 1 single edged drawing knife for searching, 2 double edged drawing knives of assorted widths of curve, 1 sharp pointed double edged sage knife, 1 single edged sage knife, right; 1 single edged sage knife, left; all in ebony handles, French model; 1 plain spring forceps, 1 sharp pointed curved on flat scissors, 1 director, 1 silver probe; in a mahogany case.

Price \$13 33

MEDICINE CHEST AND INSTRUMENT CASE COMBINED, Prof. A. Liautard's, contains: 6 two-oz. glass stoppered bottles, 2 glass jars for ointments, 1 balling iron, 1 elastic catheter.

In drawer B: 1 single edged sage knife, right, 1 single edged sage knife, left; 1 sharp pointed double edged sage knife, 1 single edged drawing knife for searching, 2 double edged drawing knives of assorted widths of curve; all in ebony handles, French model; 1 plaster spatula.

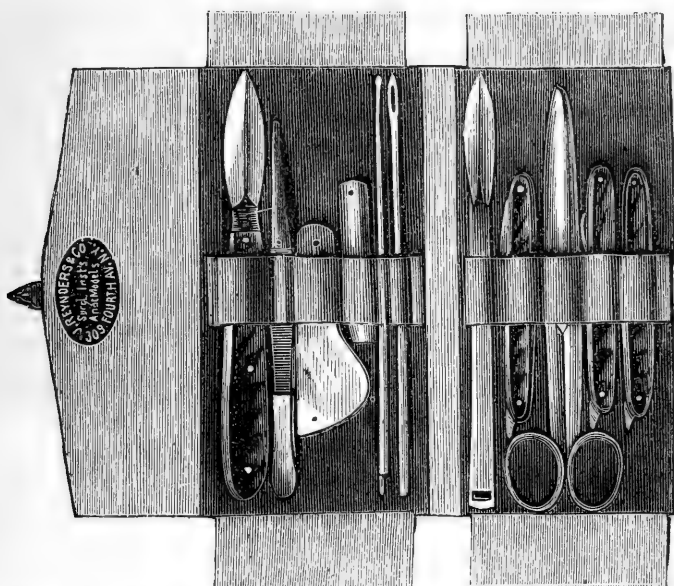
In Drawer A: 1 scalpel, straight edge, closing into hard rubber handle, with slide catch; 1 scalpel, convex edge, closing into hard rubber handle, with slide catch; 2 assorted lancets, 1 coecum trocar, 1 dog seaton needle, closing into hard rubber handle, with slide catch; 1 plain artery forceps, 1 grooved seaton neeedle, separating into two parts; 1 curved on flat scissors, 1 director, 1 porte caustic, 1 hard rubber syringe, with cone fitting into the canula of the coecum trocar; put up in a strong wooden case, covered with black calf-skin, having a handle on the top of the cover.

Price \$41 00

When desired, the above is also furnished without the contents of the drawer A for \$26 00

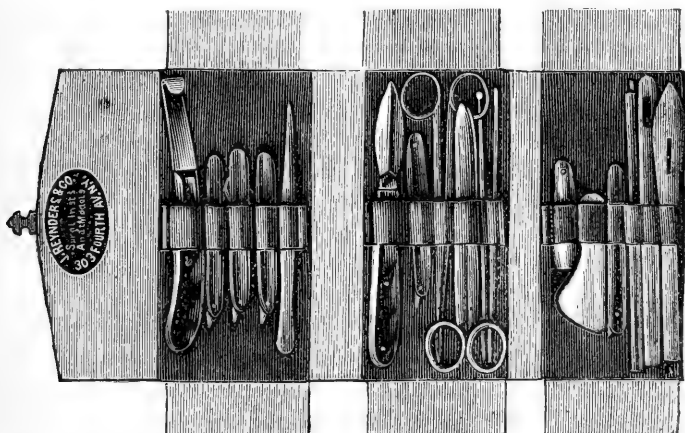
Or the same will be filled with such instruments as the purchaser may select.

POCKET CASES.



POCKET CASE No. 1, two-fold, American model, contains: 1 scalpel, straight or convex edged; 1 sharp pointed curved bistoury, 1 tenaculum;—all closing into plain hard rubber handles; 1 straight scissors, 1 one-bladed fleam, 1 plain artery forceps, 1 sharp pointed double edged sage knife, 1 lancet, 1 seaton needle, 1 probe, separating into two parts; 4 needles and silk. Plate 26, Fig. 311.

Price.....\$12 22



POCKET CASE No. 2, three-fold, American model, contains: 1 scalpel, straight edged; 1 scalpel, convex edged; 1 bistoury, curved, sharp pointed; 1 bistoury, curved, probe pointed; 1 tenaculum;—all closing into plain hard rubber handles; 1 lancet; 1 fleam, two blades; 1 drawing knife, single edged; 1 sage knife, sharp pointed, double edged; 1 seaton needle, separating into three parts; 1 scissors curved on flat; 1 dressing forceps, with scissor handles; 1 artery forceps, plain; 1 probe, separating into two parts; 4 needles, and silk. Fig. 310.

Price.....\$18 89

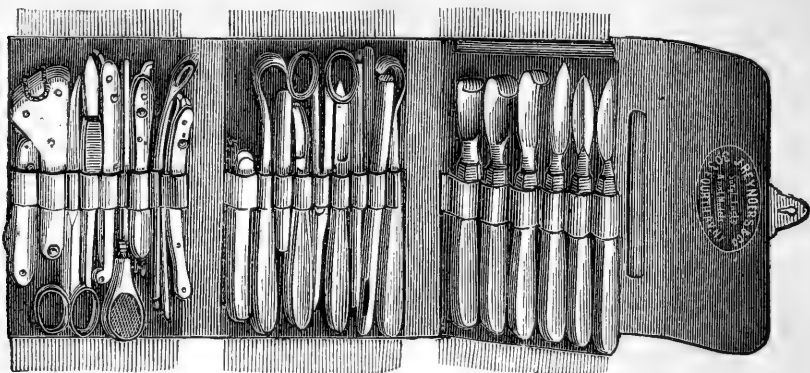
POCKET CASES.

POCKET CASE No. 4, two-fold French model, contains: 1 scalpel, convex edged, closing into handle, with slide catch; 1 fleam, two blades; 1 scissors, curved on flat; 1 artery forceps, plain; 1 director, with myrtle leaf; 1 seaton needle, separating into two parts; 1 lancet, 1 drawing knife, double edged; 1 sage knife, sharp pointed, double edged; 1 drawing knife, single edged; needles and silk.

Price.....\$15 55

POCKET CASE No. 5, two-fold, with pressed leather frame, French Model, contains: 1 bistoury, straight, sharp pointed; 1 scalpel, convex edged; 1 sage knife, single edged;—all closing into handles, with slide catches; 1 fleam, two blades; 1 artery forceps, plain; 1 drawing knife, double edged, in ebony handle; 1 lancet, 1 seaton needle, separating into three parts; 1 director, with myrtle leaf; 1 scissors curved on flat; suture pins, needles and silk.

Price.....\$23 33



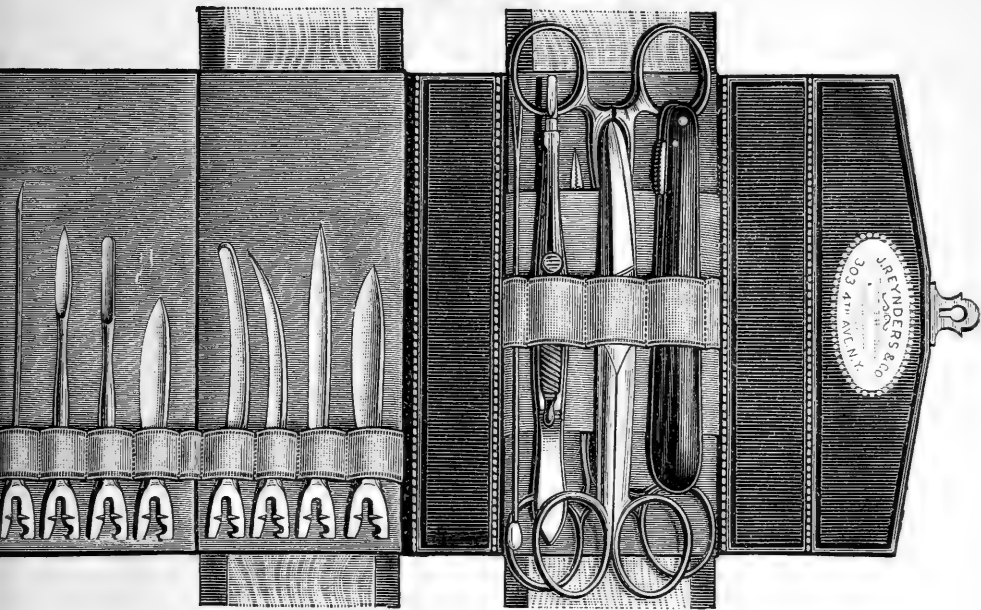
POCKET CASE No. 7, three-fold, French model, contains: 1 castrating knife, 1 dog seaton needle, 1 bistoury, straight, sharp pointed; 1 bistoury, straight, probe pointed, with extra long shank; 1 scalpel, convex edged;—all closing into handles with slide catches; 1 fleam, 3 blades; 1 scissors, curved on flat; 1 coecum trocar, 1 seaton needle, S form and grooved; 1 artery forceps, plain; 1 director, with myrtle leaf; 1 caustic holder, with silver burner; 2 retractors, 1 bistoury, straight, sharp pointed, in ebony handle; 1 dressing forceps, with scissor handles; 1 bistoury (neurotomy) curved, probe pointed, in ebony handle; 1 seaton needle, separating into three parts; 3 drawing knives, double edged, of assorted widths of curve; 1 sage knife, sharp pointed, double edged; 1 sage knife, single edged, right; 1 sage knife, single edged, left; 3 lancets, assorted; needles and silk. Fig. 312.

Price.....\$40 00

POCKET CASE No. 9, Prof. A. Liautard's, compact, two-fold, contains: 1 exploring needle and delicate scalpel, convex edged, closing into one shell handle, with spring catches; 1 bistoury, curved, sharp pointed; 1 bistoury, curved, probe pointed; 2 scalpels, assorted sizes, closing into one shell handle, with spring catches; 2 drawing knives, double edged, of assorted widths of curve; 1 sage knife, sharp pointed, double edged, fitting into one handle, with spring catch; 1 artery forceps, plain; 1 dressing forceps, with scissor handles; 1 caustic holder, with platinum burner; 1 Cleborne's artery forceps; 2 probes, silver; 1 director, with aneurism needle; 1 scissors, curved on flat; 1 exploring trocar, needles and silk.

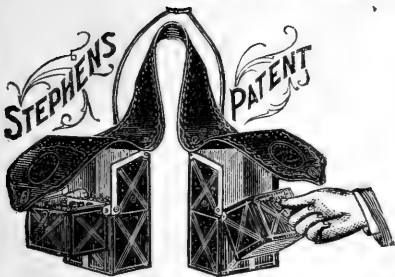
Price.....\$23 00*

POCKET CASE AND SADDLE BAG.



This shows a Pocket Case with a Set of Knives as mentioned on page 25.

STEPHENS' SADDLE BAG AND BUGGY CASE.



nickel-plated, and the general workmanship and finish are fine, rendering the appearance very attractive.

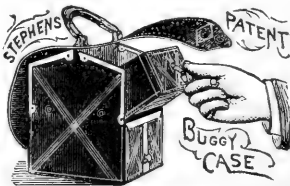
The annexed cut represents the Stephens Patent Saddle Bags, the most compact, strong, and only entirely water-proof bag made.

The outer casings are of tin, covered with the best bridle leather, and the lower cases are built in the outer casing, forming a solid box. The upper compartments, or boxes, are made of tin, covered with leather, and swing on metal arms, so adjusted that by pulling them to the front, slightly tilted upward, they are thrown out and immediately in front of the lower boxes, thus giving free access to both cases of bottles at one and the same time, a feature which stamps the bag superior to all others, and one that will be readily appreciated by practitioners. The construction is such, that no seams are exposed to the weather, and metal rivets are used in putting together. The bottles have rubber corks, and the partitions are of leather, rendering breakage of bottles impossible. The trimmings are all of brass,

	Black Leather.	Russet Leather.
Price, No. 1, or Small (24 Vials).....	\$10.00	\$11.00
“ “ 2, or Large (30 “).....	11.00	12.00

The annexed cut represents the Stephens Patent Buggy Case, the only style yet offered the profession which is entirely water-proof, and with strength to be durable. In its construction the same convenient features of the Stephens Patent Saddle Bags are used, yet it is so built as to form a square solid box, so compact and light that the small size, containing sixteen 1½ and eight ¾ ounce vials, with one upper compartment empty for carrying surgical appliances, covers a surface space of 5¼x6½ inches only, and weighs 5¼ pounds complete. Being of superior workmanship, and nickel-plated trimmings throughout, the most attractive as well as convenient Case is shown.

Either sent by express to any part of the United States on receipt of price, subject to return at our expense if not satisfactory.

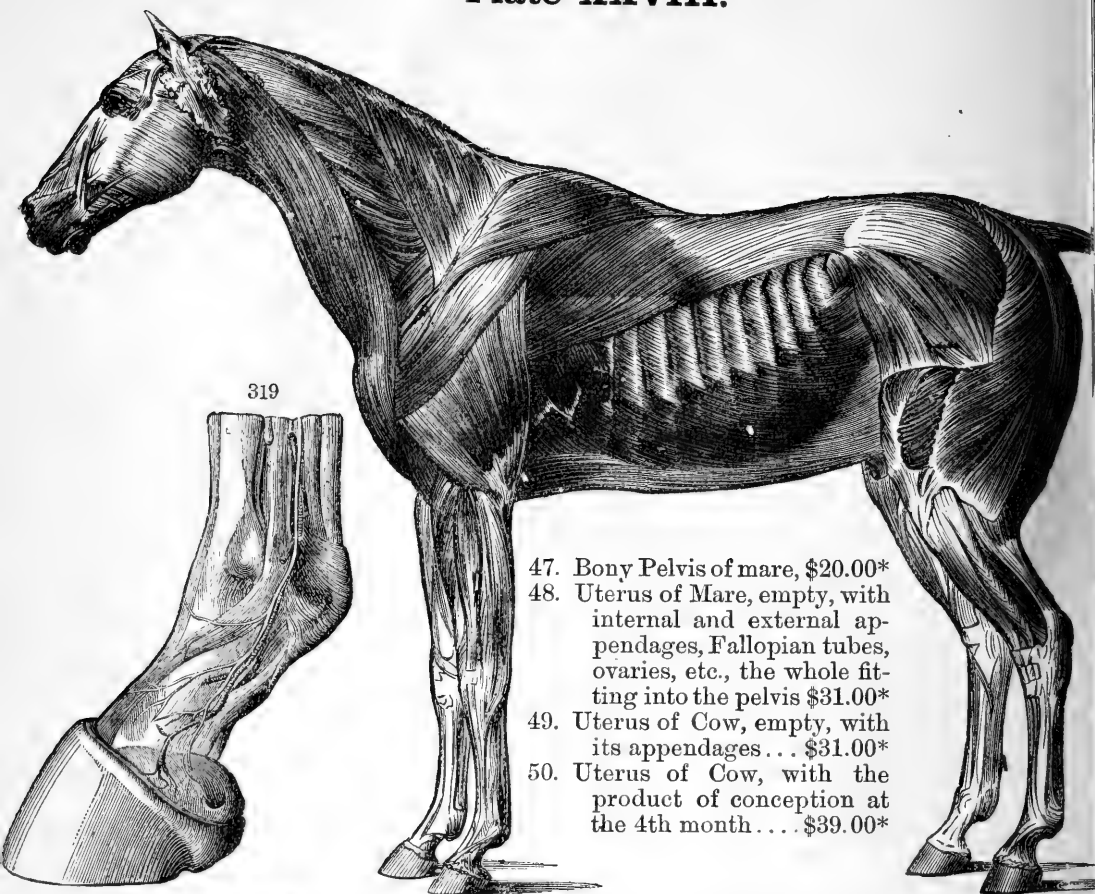


	Black Leather.	Russet Leather.
Price, Small (24 Vials).....	\$12.00	\$13.00
“ Large (30 “).....	13.00	14.00
“ Extra Large (36 Vials).....	15.00	16.00

Saddle Bag and Buggy Case combined, the one changeable to the other, containing 24 bottles and space for instruments, \$12.00

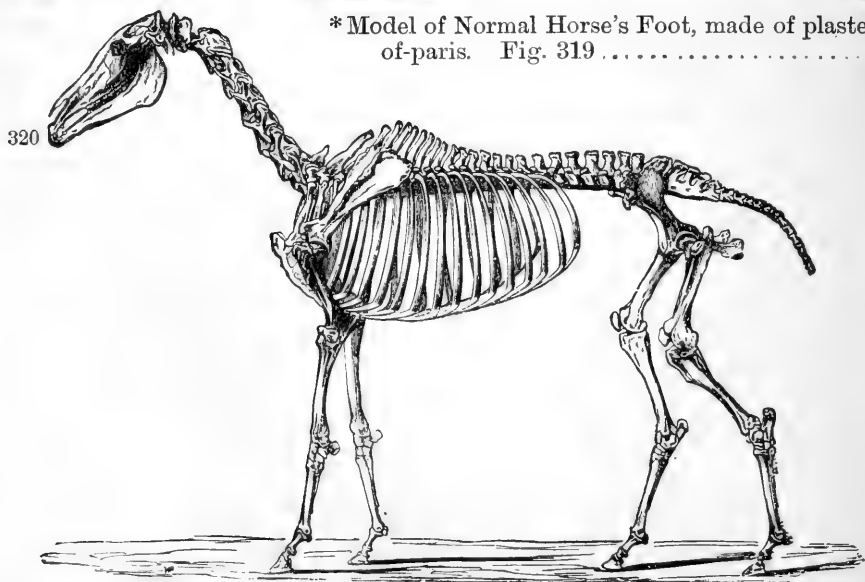
318

Plate XXVIII.



- 47. Bony Pelvis of mare, \$20.00*
- 48. Uterus of Mare, empty, with internal and external appendages, Fallopian tubes, ovaries, etc., the whole fitting into the pelvis \$31.00*
- 49. Uterus of Cow, empty, with its appendages... \$31.00*
- 50. Uterus of Cow, with the product of conception at the 4th month.... \$39.00*

* Model of Normal Horse's Foot, made of plaster-of-paris. Fig. 319\$12.00



SKELETON OF THE HORSE.

Price.....\$100 00* to \$125 00*

34. Arab Horse. Fig. 318. Complete (4 feet 3 inches high), exhibiting in detail more than 3,000 objects separating into 97 pieces; showing on one side the superficial muscles, nerves, and vessels; on the other, the same removable separately, as in a dissection, from the superficial layer to the skeleton; in the splanchnic cavities are found all the organs contained therein, which also may be removed and studied separately. This model of the horse, which leaves nothing to be desired has been adopted by the French cavalry corps, veterinary and agricultural schools. It has also been purchased by several foreign governments as an efficacious means of popularizing the ideas of anatomy and physiology necessary for the amelioration of the equine race, and for the choice, employment and preservation of the horse.

Price, about \$1,500.00; same, simplified, but very fine, about \$700 00

36. Thirty Maxillae, or Jaw Bones, displaying correctly the age of the horse at every period of life, with examples of such malformations as may make the horse appear older or younger. 155 00*
37. Plate, displaying in relief the shape and organization of all the teeth of the horse. 8 00*
38. Fourteen Maxillae, or Jaws, of an Ox, displaying correctly the age at various epochs of life. 58 00*

MODELS OF HORSES' LEGS.

39. Swellings of the Bones. Leg of sound horse, divested of the skin and amputated 8 in. above the ham, from which different portions of bone may be removed and replaced by diseased specimens. These, to the number of 13, show, in various degrees of development, the various bony maladies, known as spavin, curb, ring-bone, etc. 58 00*
40. Leg of a Horse, divested of the skin, showing diseased bone; not detachable. 20 00*
41. The same, with examples of bony diseases. 20 00*
42. Leg of a Horse in a healthy state, covered by the skin 20 00*
43. Bones of the Leg of a Horse, 12 distinct bones, each separately removable. 20 00*
44. Flesh Diseases of the Horse; the leg divested of the skin in one-half its extent, the skin preserved in the remainder, with instances of soft swellings, windgalls, capped hock, etc. 20 00*
- 44.* Foot of a Horse, showing the disposition of the hoof, the "podophyllic" tissue, the vessels, nerves, etc. (all parts being removable) 28 00*
45. Bis* The same, with the hoof, separating after the manner of Bracy Clark; showing groove intended to receive the shoe of Charliers pattern 31 00*
- 46.* Horse's Hoof, separable, according to the plan of Bracy Clark, into the wall sole, frog, and periopole. 14 00*
46. Bis* The same, illustrating the shoeing of Charlier 14 00*



Veterinary Books.

- ALLEN's Domestic Animals.** A history and description of the horse, mule, cattle, swine, poultry, and farm dogs, with directions for breeding, treatment, etc. By R. L. Allen. 12mo, cloth..... \$1 00
- ALLEN's American Cattle.** Their history, breeding and management. By Lewis F. Allen. 12mo, cloth, illustrated..... 2 50
- ALLEN's Diseases of American Cattle.** By L. F. Allen. 12mo, cloth..... 1 00
- ANDERSON & WARING.** The Saddle Horse. A complete guide to the riding and training of saddle horses. By E. L. Anderson and George E. Waring. 12mo, cloth, illustrated..... 1 00
- ARMATAGE.** Every Man His Own Horse Doctor. In which is embodied Blaine's "Veterinary Art," with 330 original illustrations, colored plates, anatomical drawings, etc. 8vo, half leather..... 7 50
- ARMATAGE's Veterinarian's Pocket Remembrancer.** By George Armatage, M. R. C. V. S., with concise directions and memoranda for the treatment in urgent or rare cases..... 0 75
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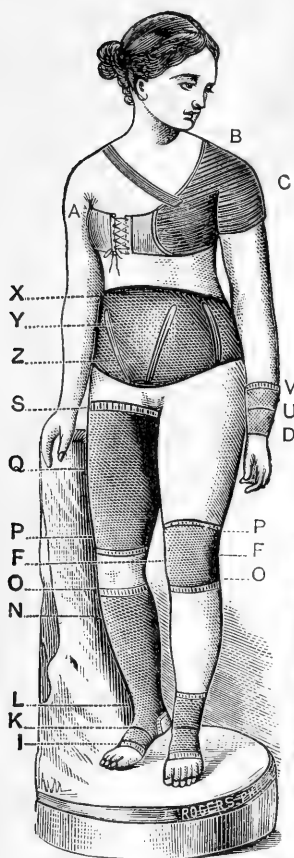
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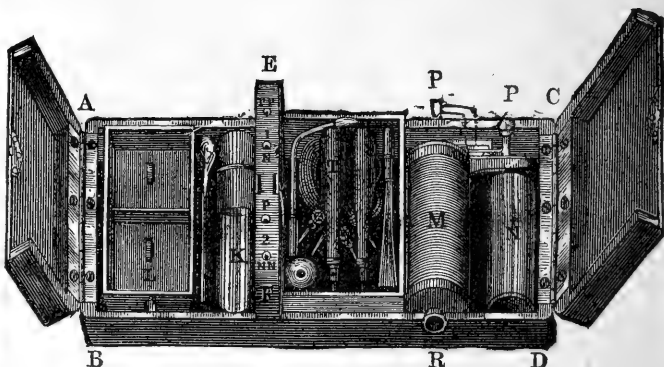
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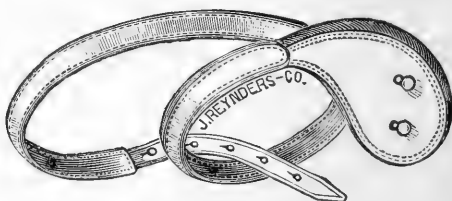
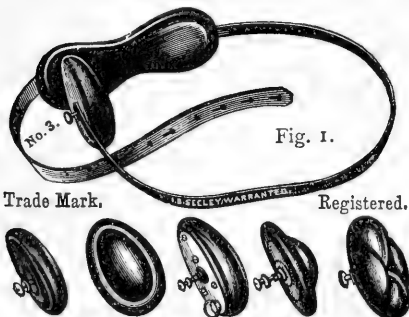
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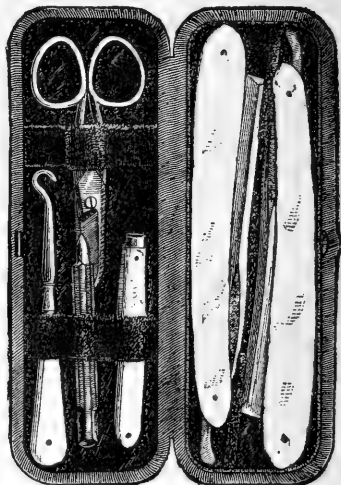
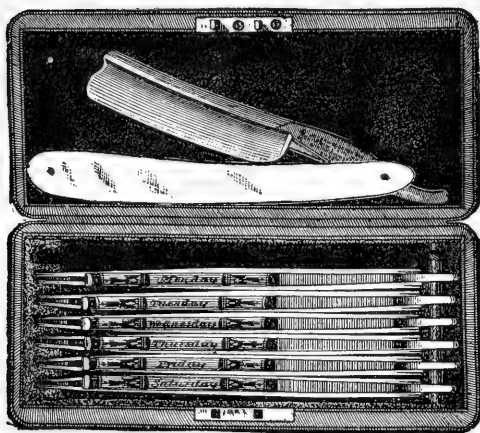
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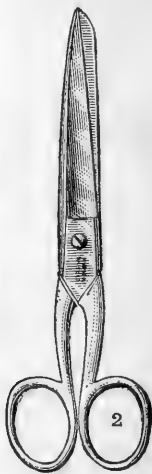
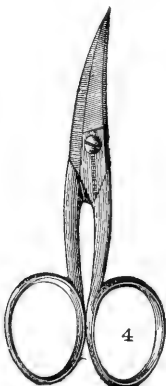
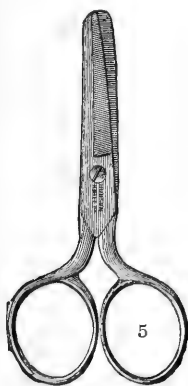
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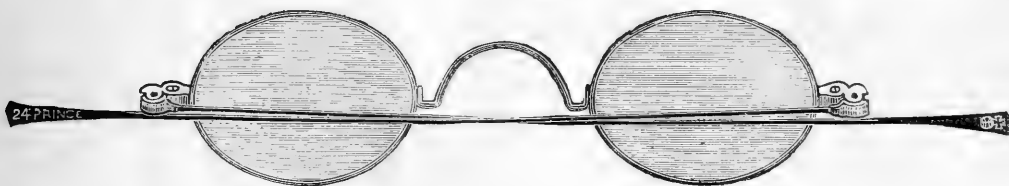
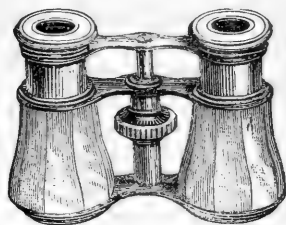
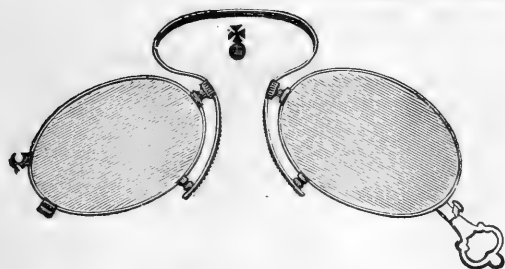


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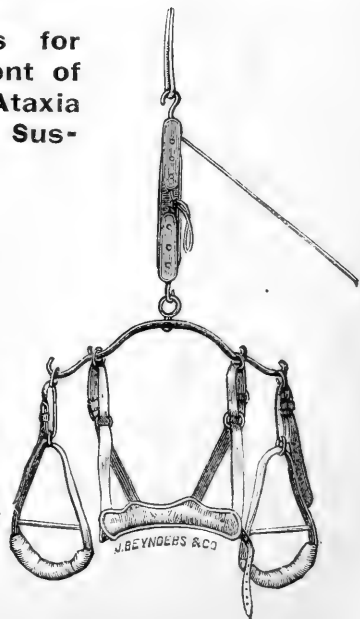
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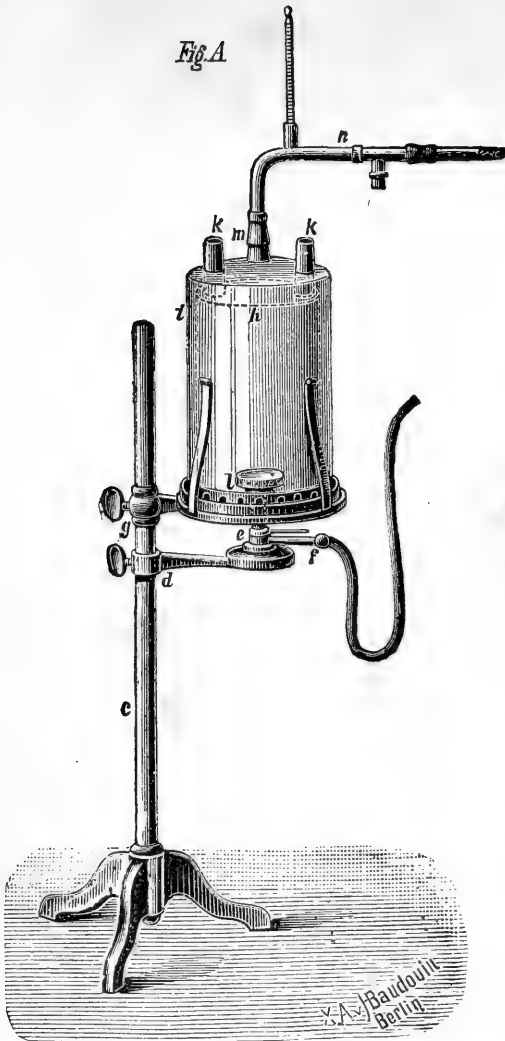
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